

Figure 1  
Sequence of human APRIL (SEQ ID NOS: 1 and 2)

Human G70 cDNA (SEQ ID NO 1)

Length: 1465 bp

1	GCCAACCTTC	CGTEGEECCAA	CCCTGGGGCC	GCCCCAGGGT	TCCTGCGCAC
51	TGCCTGTTCC	TCCTGGGTGT	CACTGGCAGC	CCTGTCCCTC	CTAGAGGGAC
101	TGGAACCTAA	TTCTCCTGAG	GCTGAGGGAG	GGTGGAGGGT	CTCAAGGCAA
151	CGCTGGCCCC	ACGACGGAGT	GCCAGGAGCA	CTAACAGTAC	CCTTAGCTTG
201	CTTTCCTCCT	CCCTCCCTTT	TATTTTCAAG	TTCTTTTATA	TTTCTCCTTG
251	CGTAACAACC	TTCTTCCCTT	CTGCACCACT	GCCCGTACCC	TTACCCGCCG
301	CGCCACCTCC	TTGCTACCCC	ACTCTTGAAA	CCACAGCTGT	TGGCAGGGTC
351	CCCAGCTCAT	GCCAGCCTCA	TCTCCTTTCT	TGCTAGCCCC	CAAAGGGCCT
401	CCAGGCAACA	TGGGGGGCCC	AGTCAGAGAG	CCGGCACTCT	CAGTTGCCCT
451	CTGGTTGAGT	TGGGGGGCAG	CTCTGGGGGC	CGTGGCTTGT	GCCATGGCTC
501	TGCTGACCCA	ACAAACAGAG	CTGCAGAGCC	TCAGGAGAGA	GGTGAGCCGG
551	CTGCAGGGGA	CAGGAGGCCC	CTCCCAGAAT	GGGGAAGGGT	ATCCCTGGCA
601	GAGTCTCCCG	GAGCAGAGTT	CCGATGCCCT	GGAAGCCTGG	GAGAGTGGGG
651	AGAGATCCCG	GAAAAGGAGA	GCAGTGCTCA	CCCAAAAACA	GAAGAAGCAG
701	CACTCTGTCC	TGCACCTGGT	TCCCATTAA	GCCACCTCCA	AGGATGACTC
751	CGATGTGACA	GAGGTGATGT	GGCAACCAGC	TCTTAGGCGT	GGGAGAGGCC
801	TACAGGCCCA	AGGATATGGT	GTCCGAATCC	AGGATGCTGG	AGTTTATCTG
851	CTGTATAGCC	AGGTCCGTGT	TCAAGACGTG	ACTTTCACCA	TGGGTCAGGT
901	GGTGTCTCGA	GAAGGCCAAG	GAAGGCAGGA	GACTCTATTC	CGATGTATAA
951	GAAGTATGCC	CTCCCACCCG	GACCGGGCCT	ACAACAGCTG	CTATAGCGCA
1001	GGTGTCTTCC	ATTTACACCA	AGGGGATATT	CTGAGTGTC	TAATTCCCCG
1051	GGCAAGGGCG	AAACTTAACC	TCTCTCCACA	TGGAACCTTC	CTGGGGTTTG
1101	TGAAACTGTG	ATTGTGTTAT	AAAAAGTGGC	TCCCAGCTTG	GAAGACCAGG
1151	GTGGGTACAT	ACTGGAGACA	GCCAAGAGCT	GAGTATATAA	AGGAGAGGGA
1201	ATGTGCAGGA	ACAGAGGCGT	CTTCTGGGT	TTGGCTCCCC	GTTCTCACT
1251	TTTCCCTTTT	CATTCCCAAC	CCCTAGACTT	TGATTTTACG	GATATCTTGC
1301	TTCTGTTCCC	CATGGAGCTC	CGAATTCTTG	CGTGTGTGTA	GATGAGGGGC
1351	GGGGGACGGG	CGCCAGGCAT	TGTTTCAGACC	TGGTCGGGGC	CCACTGGAAG
1401	CATCCAGAAC	AGCACCACCA	TCTAACGGCC	GCTCGAGGGA	AGCACC CGC
1451	GGTTTGGGCG	AAGTC			

The proposed transmembrane domains are boxed

human G70 protein sequence (SEQ ID NO 2)

1	MPASSPFLLA	PKGPPGNMGG	PVREPALSV	AWLSWGAALG	AVACAMALLT
51	QQTELQSLRR	EVSRLQGTGG	PSQNGEGYPW	QSLPEQSSDA	LEAWESGERS
101	RKRRAVLTQK	QKKQHSVLHL	VPINATSKDD	SDVTEVMWQP	ALRRGRGLQA
151	QGYGVRIQDA	GVYLLYSQVL	FQDVTFTMGQ	VVSREGQGRQ	ETLFR CIRSM
201	PSHPDRAYNS	CYSAGVFHLH	QGDILSVIIP	RARAKLNLSP	HGTFLGFKVL

[illegible]

Mouse G70 (SEQ ID NO 3)

1	CATGCCGAGT	GCTTTGTGTG	TGTTACCTGC	TCTAAGAAGC	TGGCTGGGCA	
51	GCGTTTCACC	GCTGTGGAGG	ACCAGTATTA	CTGCGTGGAT	TGCTACAAGA	
101	ACTTTGTGGC	CAAGAAGTGT	GCTGGATGCA	AGAACCCCAT	CAC'TGGG'TTT	
151	GGTAAAGGCT	CCAGTGTGGT	GGCCTATGAA	GGACAATCCT	GGCACGACTA	
201	CTGCTTCCAC	TGCAAAAAAT	GCTCCGTGAA	TCTGGCCAAC	AAGCGCTTTG	
251	TATTTCATAA	TGAGCAGGTG	TATTGCCCTG	ACTGTGCCAA	AAAGCTGTAA	
301	CTTGACGGCT	GCCCTGTCCT	TCCTAGATAA	TGGCACCAAA	TTCTCCTGAG	
351	GCTAGGGGGG	AAGGAGTGTC	AGAGTGTAC	TAGCTCGACC	CTGGGGACAA	
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451	TTTATTTCTC	CCTTGCGTAA	CCCGCTCTTC	CCTTCTGTGC	CTTTGCCTGT	
501	ATTCCCACCC	TCCCTGCTAC	CTCTTGGCCA	CCTCACTTCT	GAGACCACAG	
551	CTGTTGGCAG	GGTCCCTAGC	TCATGCCAGC	CTCATCTCCA	GGCCACATGG	
601	GGGGCTCAGT	CAGAGAGCCA	GCCCTTTCGG	TTGCTCTTTG	GTTGAGTTGG	
651	GGGGCAGTTC	TGGGGGCTGT	GA <del>CT</del> TGTGCT	GTCGCACTAC	TGATCCAACA	
701	GACAGAGCTG	CAAAGCCTAA	GGCGGGAGGT	GAGCCGGCTG	CAGCGGAGTG	
751	GAGGGCCTTC	CCAGAAGCAG	GGAGAGCGCC	CATGGCAGAG	CCTCTGGGAG	
801	CAGAGTCCTG	ATGTCTCTGA	AGCCTGGAAG	GATGGGGCGA	AATCTCGGAG	
851	AAGGAGAGCA	GTA <del>CT</del> CACCC	AGAAGCACAA	GAAGAAGCAC	TCAGTCTCTG	
901	ATCTTGTTCC	AGTTAACATT	ACCTCCAAGG	ACTCTGACGT	GACAGAGGTG	
951	ATGTGGCAAC	CAGTACTTAG	GCGTGGGAGA	GGCCTGGAGG	CCCAGGGAGA	
1001	CATTGTACGA	GTCTGGGACA	CTGGAATTTA	TCTGCTCTAT	AGTCAGGTCC	
1051	TGTTTCATGA	TGTGACTTTC	ACAATGGGTC	AGGTGGTATC	TCGGGAAGGA	
1101	CAAGGGAGAA	GAGAAACTCT	ATTCCGATGT	ATCAGAAGTA	TGCCTTCTGA	
1151	TCCTGACCGT	GCCTACAATA	GCTGCTACAG	TGCAGGTGTC	TTTCATTTAC	
1201	ATCAAGGGGA	TATTATCACT	GTCAAAATTC	CACGGGCAAA	CGCAAAACTT	
1251	AGCCTTTCTC	CGCATGGAAC	ATTCTGGGG	TTTGTGAAAC	TATGATTGTT	
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1451	AAAAAAGTAG	AATATTTTGT	GTTTATCTCC	CAAAAA		

G-70 FLAG des92 (smuG70) Strain #4081 (SEQ ID NO 19):

MDYKDDDDKKHKKKHSVLHLVPVNITSKDSDVTEVMWQPVLRGRGLEAQGDIVRVW  
DTGIYLLYSQVLFHDVTFMTMGQVVSREGQGRRETLFRCIRSMSPDPDRAYNSCYSAG  
VFHLHQGDIITVKIPRANAKLSLSPHGTFLGFVKL\*

[illegible]

Figure 3  
Alignm. of human and mouse G70

mouse: 1	MPASS-----PGHMGGS	VREPALSVALWLSWGA	VLGAVTCAVALL	IQQTEQLSLRR	51
	MPASS	PG+MGG	VREPALSVALWLSWGA	LGAV CA+ALL	QQTEQLSLRR
Human: 1	MPASSPFLAPKGPPGNMGGP	VREPALSVALWLSWGA	AALGAVACAMALL	IQQTEQLSLRR	60
mouse: 52	EVSRLQRSGGPSQKQGER	PWQSLWEQSPDVLEAWKD	GAKSRRRAVL	TQKHKKKHSVLHL	111
	EVSRLQ +GGPSQ	PWQSL EQS D LEAW+ G	+SR+RAVL	TQK KK+HSVLHL	
human: 61	EVSRLQGTGGPSQNGEGYP	WQSLPEQSSDALEAWES	GERSRKRAVL	TQKQKKQHSVLHL	120
mouse: 112	VPVNITSKD-SDVTEVMWQ	PVLRGRGLEAQGDIVRV	WDTGIYLLYSQVLF	HDTVFTMGQ	170
	VP+N TSKD SDVTEVMWQ	P LRRGRGL+AQG VR+ D	G+YLLYSQVLF	DVTFTMGQ	
human: 121	VPINATSKDDSDVTEVMWQ	PALRRGRGLQAQGYGVRI	QDAGVYLLYSQVLF	QDVTFTMGQ	180
mouse: 171	VVSREGQGRRETLFRCIR	SMPSPDRAYNSCYSAGV	FHLHQGDIITVKI	PRANAKLSLSP	230
	VVSREGQGR+ETLFRCIR	SMPSPDRAYNSCYSAGV	FHLHQGDI++V	IPRA AKL+LSP	
human: 181	VVSREGQGRQETLFRCIR	SMPSPDRAYNSCYSAGV	FHLHQGDILSVII	PRARAKLNLSP	240
mouse: 231	HGTFLGFVKL				240
	HGTFLGFVKL				
human: 241	HGTFLGFVKL				250

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Fig. 4A

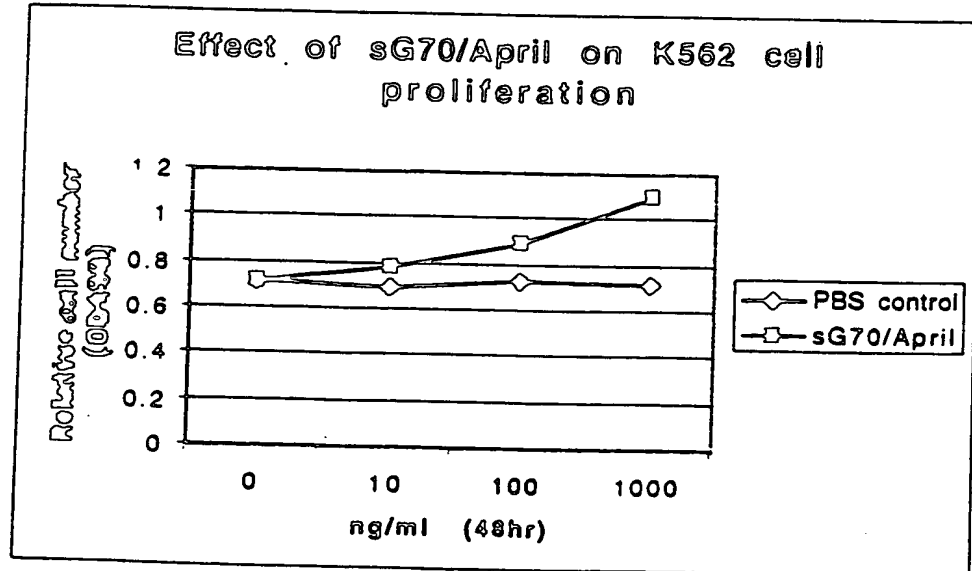
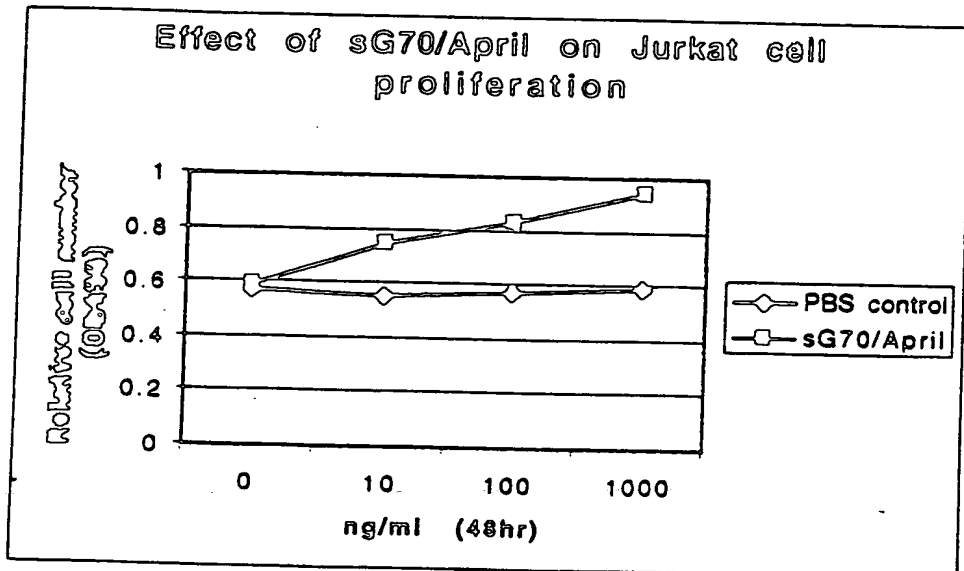
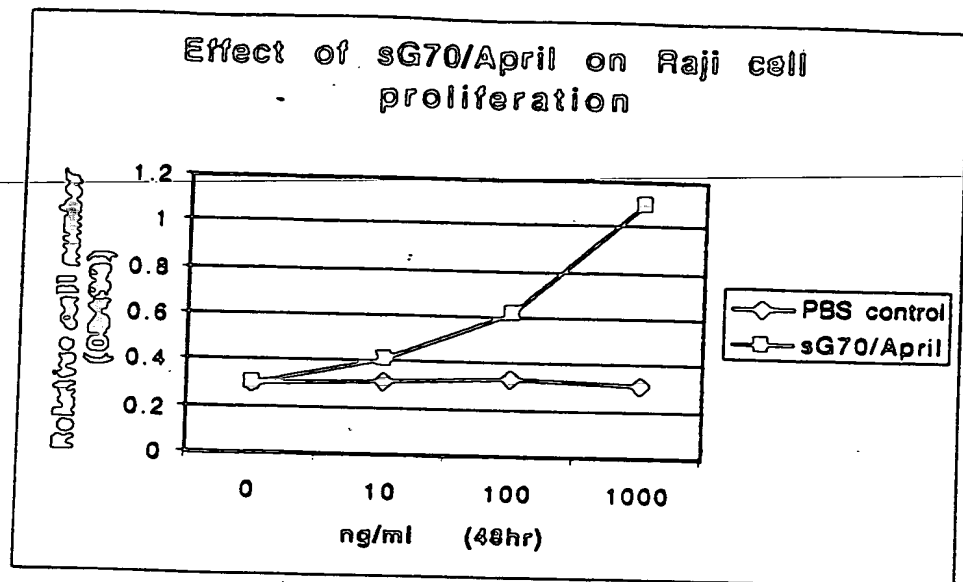


Fig. 4B

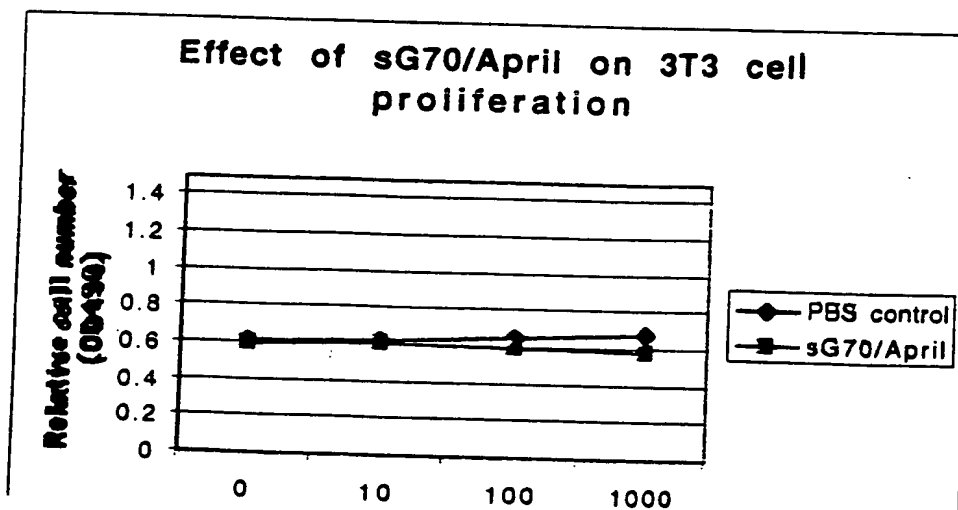
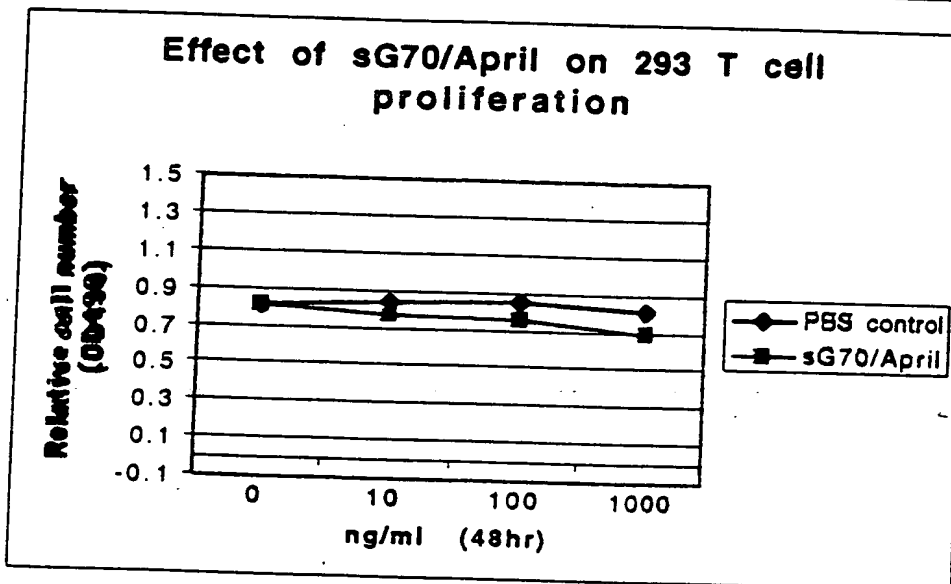
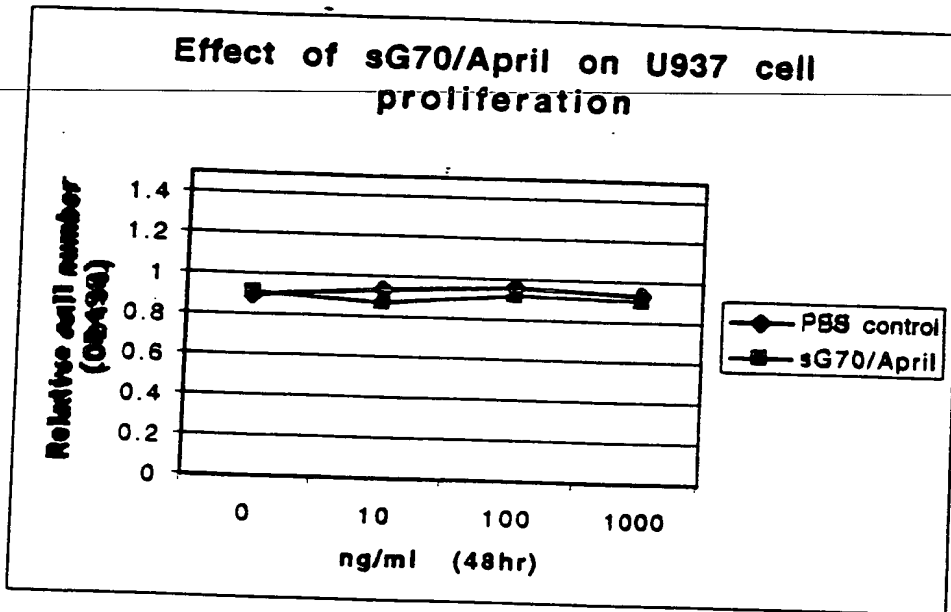
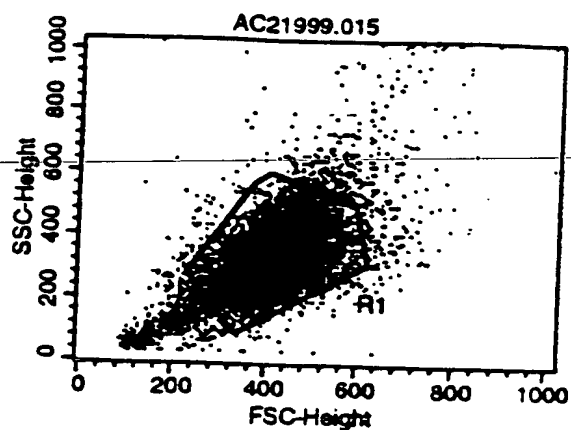


FIGURE 5A



FACS analysis of G70/April receptor binding

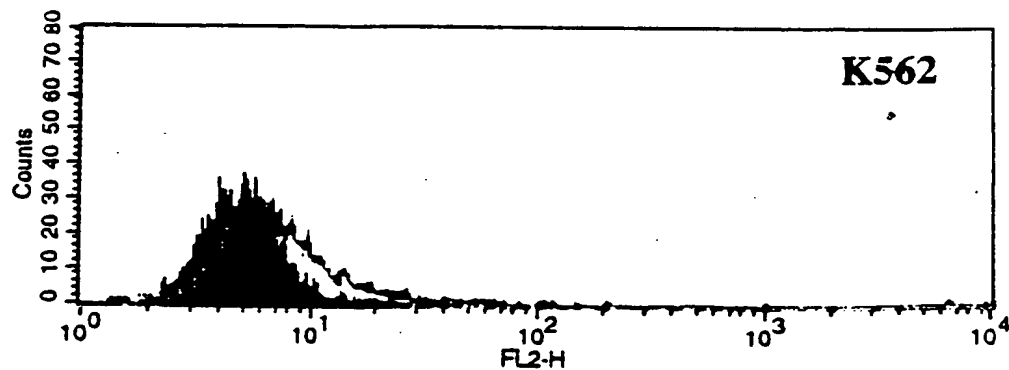
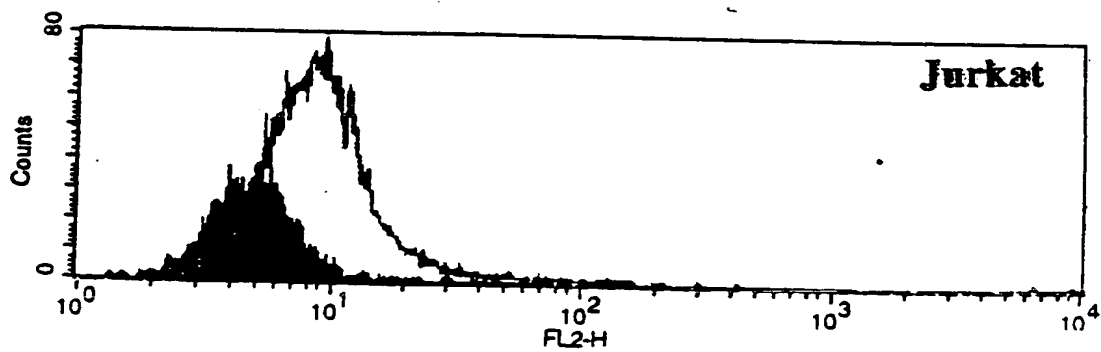
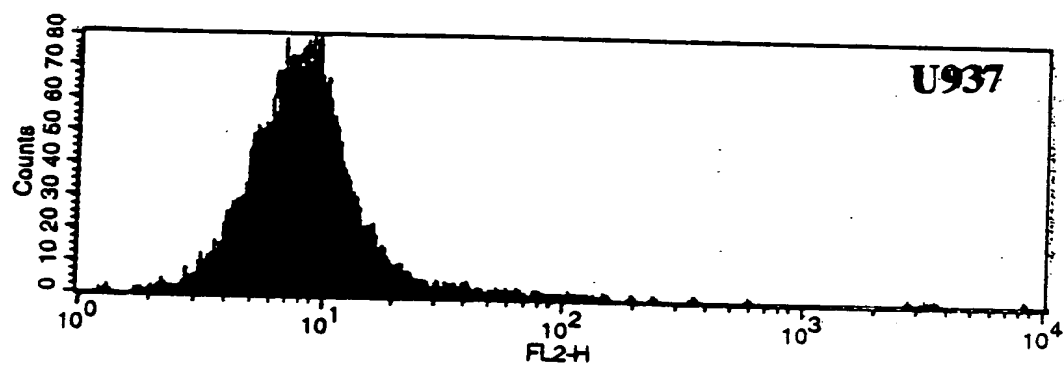
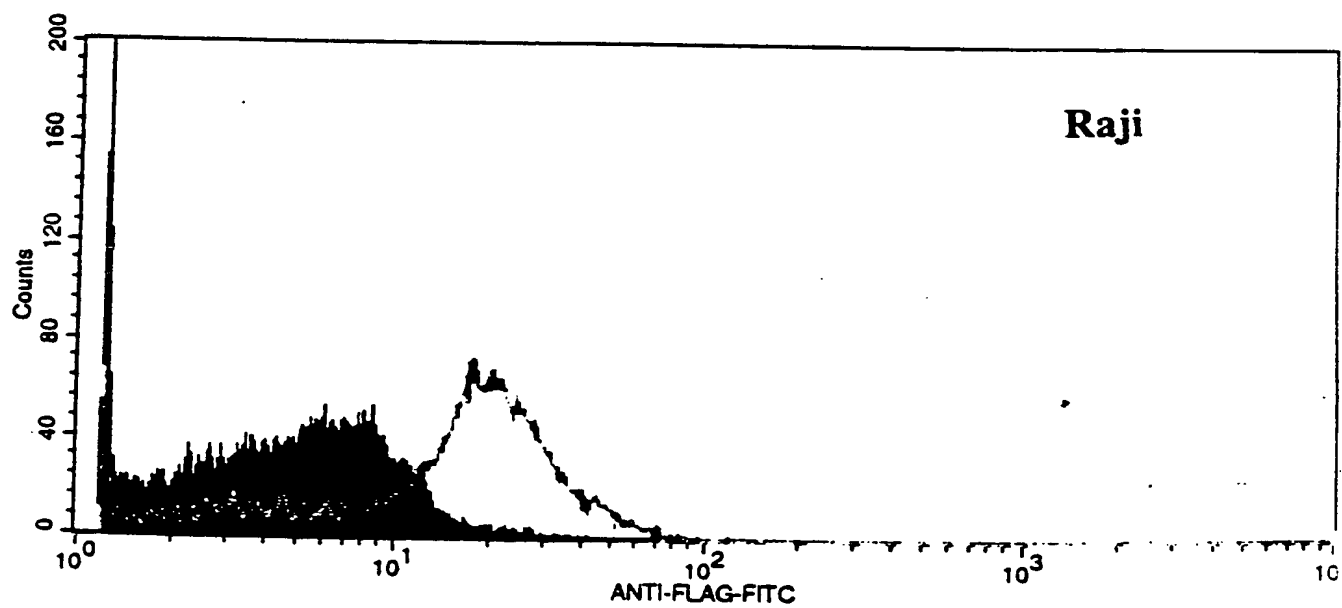
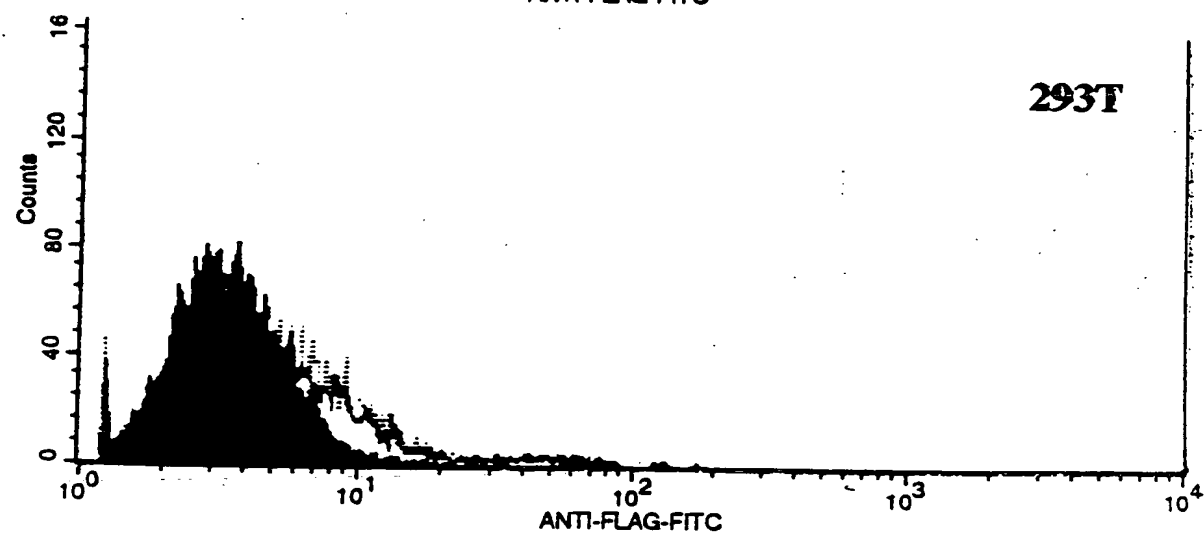
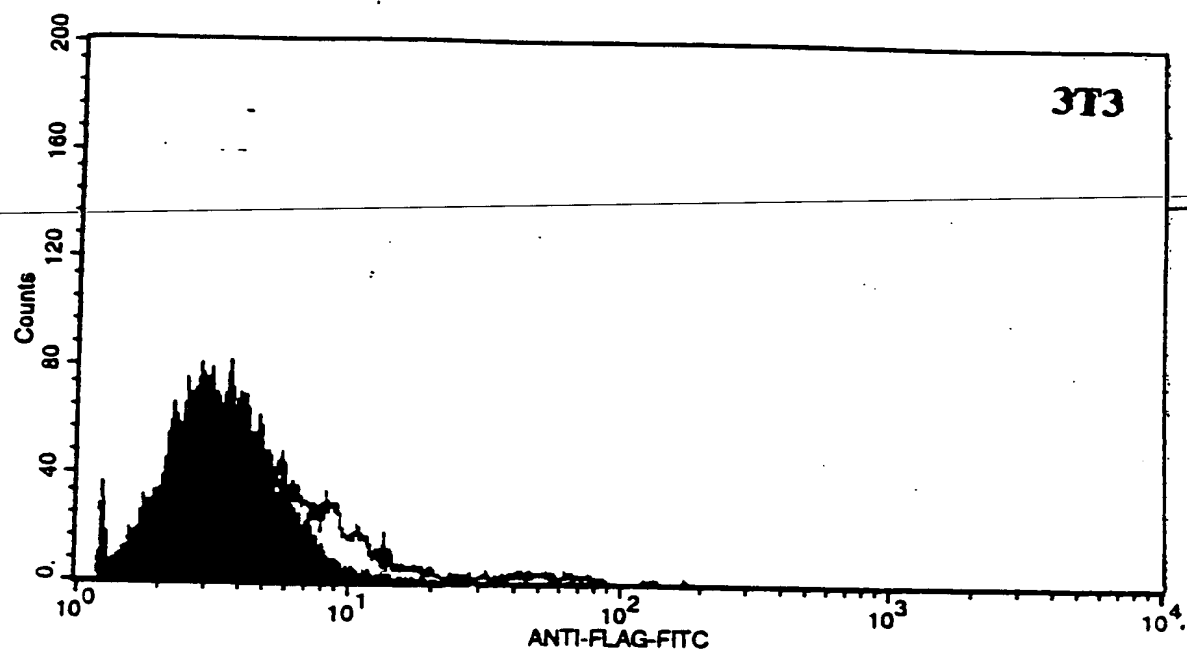
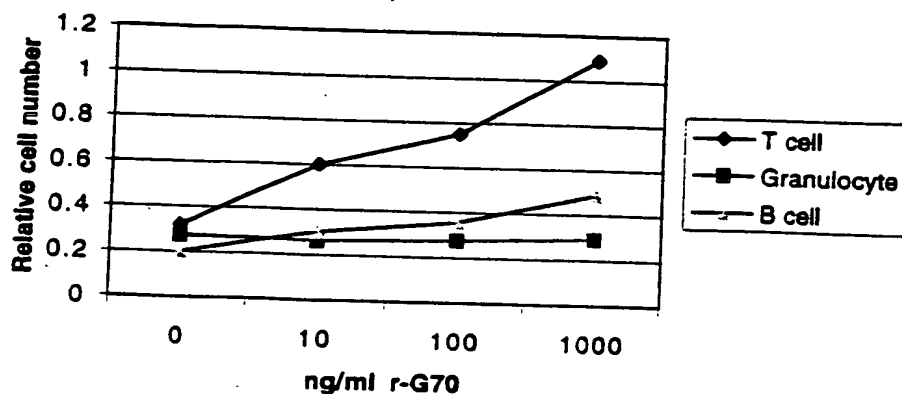


FIGURE 5B



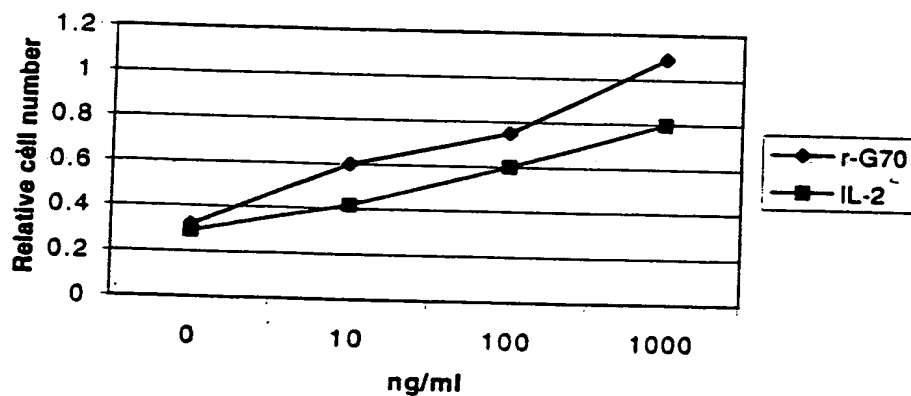


**The effect of r-G70/April on human peripheral blood B cell, T cell and Granulocyte**



**Fig. 6**

**The effect of IL-2 and G70 /April on human peripheral T cell proliferation**

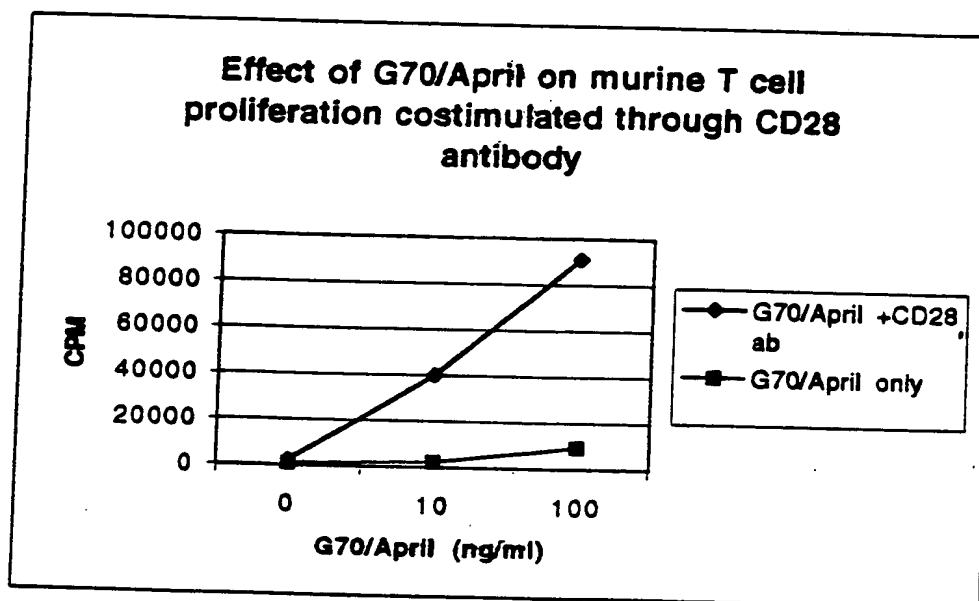


1994-1995

r-G70



**Fig. 8**



**Fig. 9**

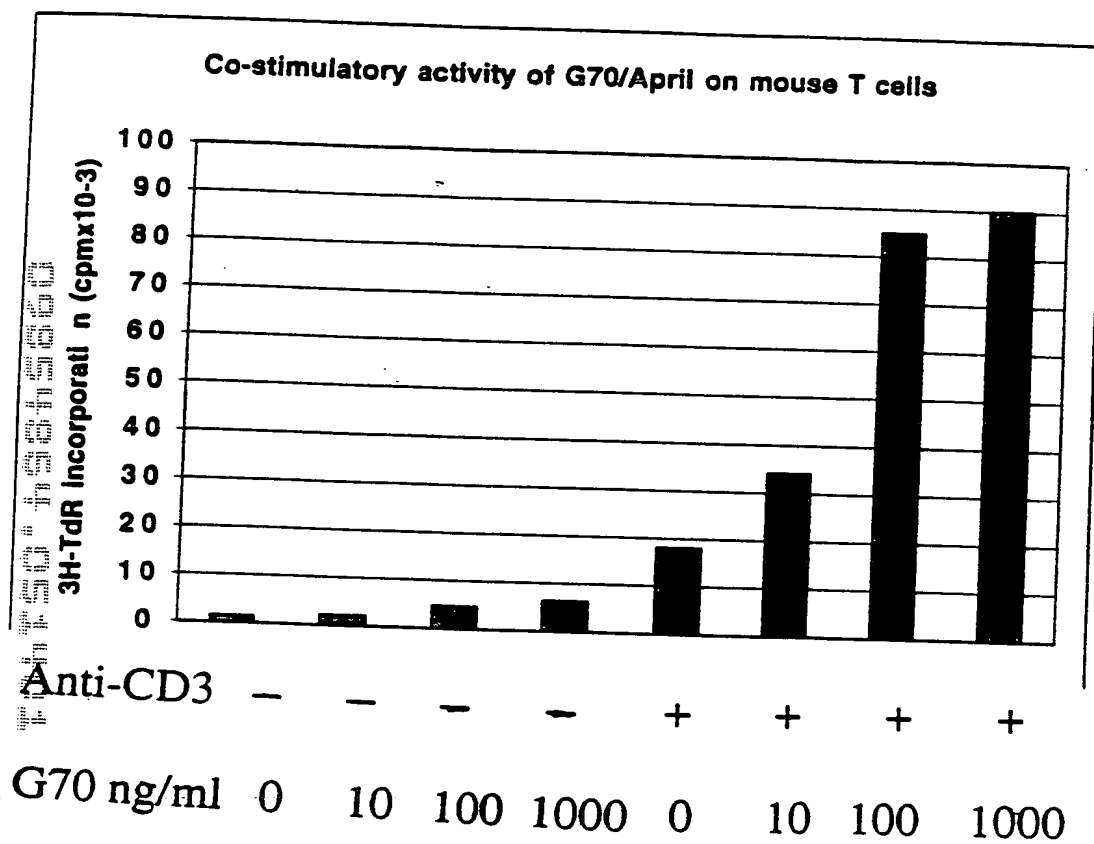


Figure 10A  
Human BCMA

Human (SEQ ID NO: 5):

1 MAGQCSQNEY FDSLLHACIP CQLRCSSNTP PLTCQRYCNA  
SVTNSVKGTN

51 AILWTCLGLS LIISLAVFVL MFLLRKISSE PLKDEFKNTG  
SGLLGMANID

101 LEKSRTGDEI ILPRGLETV EECTCEDCIK SKPKVDS DHC  
FPLPAMEEGA

151 TILVTTKTND YCKSLPAALS ATEIEKSISA R

Human (SEQ ID NO: 5):

MAGQCSQ NEYFDSLLHA CIPCQLRCSS NTPPLTCQRY CNASVTNSVK  
GTNA ILWTCL GLSLIISLAV FVLMFLLRKI SSEPLKDEFK NTGSGLLGMA  
NIDLEKSRTG DEILPRGLE YTVEECTCED CIKSKPKVDS DHC FPLPAME  
EGATILVTTK TNDYCKSLPA ALSATEIEKS ISAR

hBCMA's extracellular domain (SEQ ID NO: 6):

MAGQCSQ NEYFDSLLHA CIPCQLRCSS NTPPLTCQRY CNASVTNSVK  
GTNA

hBCMA's cysteine-rich consensus region (SEQ ID NO: 7):

CSQ NEYFDSLLHA CIPCQLRCSS NTPPLTCQRY C

hBCMA's transmembrane region (SEQ ID NO: 8):

ILWTCL GLSLIISLAV FVLMF

### Figure 10B

**huBCMA-Fc (SEQ ID NO: 9):**

MAGQCSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYCNASVTNSVKGTNA  
GGGGGDKHTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDV  
SHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNG  
KEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCL  
VKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQ  
GNVFSCSVMHEALHNHYTQKSLSLSPGK\*

**muBCMA-Fc (SEQ ID NO: 10):**

MAQQCFHSEYFDSLLHACKPCHLRCSNPPATCQPYCDPSVTSSVKGSYTG  
GGGGDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVS  
HEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGK  
EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLV  
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQ  
GNVFSCSVMHEALHNHYTQKSLSLSPGK\*

[illegible]

[illegible]

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1  MAQQCFHSEY FDSLHACKP CHLRCSNPPA TCQPYCDPSV TSSVKGTYTV
51 LWIFLGLTLV LSLALFTISF LLRKMNPEAL KDEPQSPGQL DGSAQLDKAD
101 TELTRIRAGD DRIFPRSLEY TVEECTCEDC VKSKPKGDS D HFFPLPAMEE
151 GATILVTTKT GDYGKSSVPT ALQSVGMMEK PTHTR

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Query:      4  MAGQCSQMEYFDSLLEHACIPQLCRSSNTFPPLTCQRYCNASVTNSVKGTNAILWTCLGLS 63
           MA QC  +EYFDSLLEHAC PC LRCS+  PP TCQ YC+ SVT+SVKGT +LW LGL+
Sbjct:      1  MAQQCFHSEYFDSLLEHACKPCHLRCSN--PPATCQPYCDPSVTSSVKGYTYTVLWIFLGLT 58

Query:     64  LIISLAVFVLMFLLRKISSEPLKDEFKNTG----SGLLGMANIDLEKSRTGDEIILPRGL 119
           L++SLA+F + FLLRK++ E LKDE ++ G   S  L  A+ +L + R GD+ I PR L
Sbjct:     59  LVLSLALFTISFLLRKMNPEALKDEPQSPGQLDGSAQLDKADTELTRIRAGDDRIFPRSL 118

Query:    120  EYTVEECTCEDCIKSKPKVDSSDHCFPLPAMEEGATILVTTKTNDYCKS-LPAAL-SATEI 177
           EYTVEECTCEDC+KSKPK DSDH FPLPAMEEGATILVTTKT DY KS +P AL S   +
Sbjct:    119  EYTVEECTCEDCVKSKPKGSDHFFPLPAMEEGATILVTTKTGDYGKSSVPTALQSVMGM 178

Query:    178  EKSISAR 184
           EK      R
Sbjct:    179  EKPTHTR 185

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Figure 12A  
Human TACI

huTACI (SEQ ID NO: 14).

1 MSGLGRSRRG GRSRVDQEER FPQGLWTGVA MRSCPEEQYW DPLLGTCTMSC  
51 KTICNHQSQR TCAAFCRSLSCRKEQGKFYD HLLRDCISCA SICGQHPKQC  
101 AYFCENKLRS PVNLPPELRR QRSGEVENNS DNSGRYQGLE HRGSEASPAL  
151 PGLKLSADQV ALVYSTLGLC LCAVLCCFLV AVACFLKKRG DPCSCQPRSR  
201 PRQSPAKSSQ DHAMEAGSPV STSPEPVETC SFCFPECRAP TQESAVTPGT  
251 PDPTCAGRWG CHTRTTVLQP CPHIPDSGLG IVCVPAQEGG PGA

MSGLGRSRRGGRSRVDQEERFPQGLWTGVAMRSCPEEQYWDPLLGTCTMSC  
KTICNHQSQR TCAAFCRSLSCRKEQGKFYD HLLRDCISCASICGQHPKQC  
AYFCENKLRS PVNLPPELRR QRSGEVENNS DNSGRYQGLE HRGSEASPAL  
PGLKLSADQV ALVYSTLGLC LCAVLCCFLV AVACFLKKRG DPCSCQPRSR  
PRQSPAKSSQ DHAMEAGSPV STSPEPVETC SFCFPECRAP TQESAVTPGT  
PDPTCAGRWG CHTRTTVLQP CPHIPDSGLG IVCVPAQEGG PGA

huTACI's extracellular domain (SEQ ID NO: 15):

1 MSGLGRSRRG GRSRVDQEER FPQGLWTGVA MRSCPEEQYW DPLLGTCTMSC  
51 KTICNHQSQR TCAAFCRSLSCRKEQGKFYD HLLRDCISCA SICGQHPKQC  
101 AYFCENKLRS PVNLPPELRR QRSGEVENNS DNSGRYQGLE HRGSEASPAL  
151 PGLKLSADQV ALVYST



## Figure 12B

huTACI's cysteine-rich consensus region (SEQ ID NO: 16):

CPEEQYWDPLLGTCTMSCKTICNHQSQR TCAAF C and

CRKEQGKFYDHLLRDCISCASICGQHHPKQCA YFC

transmembrane region (SEQ ID NO: 17):

LGLCLCAVLCCFLVAVACFL

hTACI-Fc (SEQ ID NO: 18):

1 MSGLGRSRRG GRSRVDQEER FPQGLWTGVA MRSCPEEQYW DPLLGTCTMSC  
51 KTICNHQSQR TCAAFCRSL S CRKEQGKFYD HLLRDCISCA SICGQHHPKQC  
101 AYFCENKLRS PVNLPPELRR QRSGEVENNS DNSGRYQGLE HRGSEASPAL  
151 PGLKLSADQV ALVYSGGGGG DKTHTCPPCP APELLGGPSV FLFPPKPKDT  
201 LMISRTPEVT CVVVDVSHED PEVKFNWYVD GVEVHNAKTK PREEQYNSTY  
251 RVVSVLTVLH QDWLNGKEYK CKVSNKALPA PIEKTISKAK GQPREPQVYT  
301 LPPSRDELTK NQVSLTCLVK GFYPSDIAVE WESNGQPENN YKTTTPVLDS  
351 DGSFFLYSKL TVDKSRWQQG NVFSCSV MHE ALHNHYTQKS LSLSPGK\*

### Figure 13

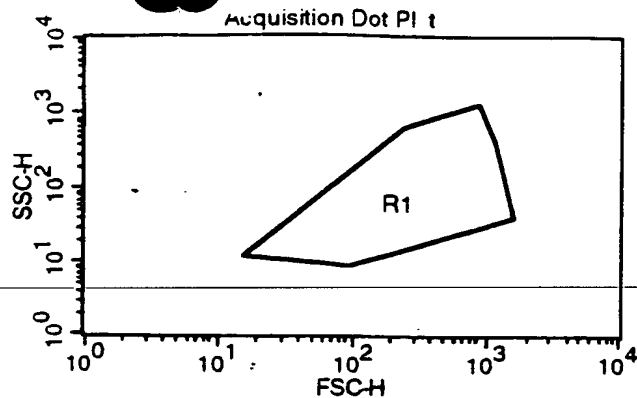
**Alignment of cysteine rich extracellular regions of human TACI and human BCMA.**

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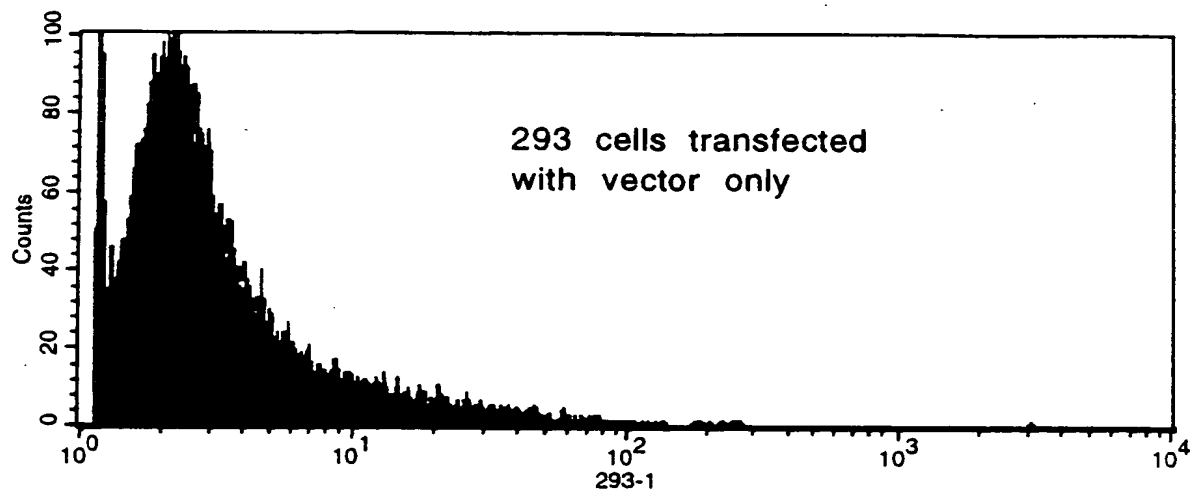
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 8 CSQNEYFDSLHACIPCQLRCSNTPPLTCQRYCNASVTNSVKGT..NAI 55
      83 LRDCISCASI 92
      | | : . |
 56 LWTCLGLSLI 65

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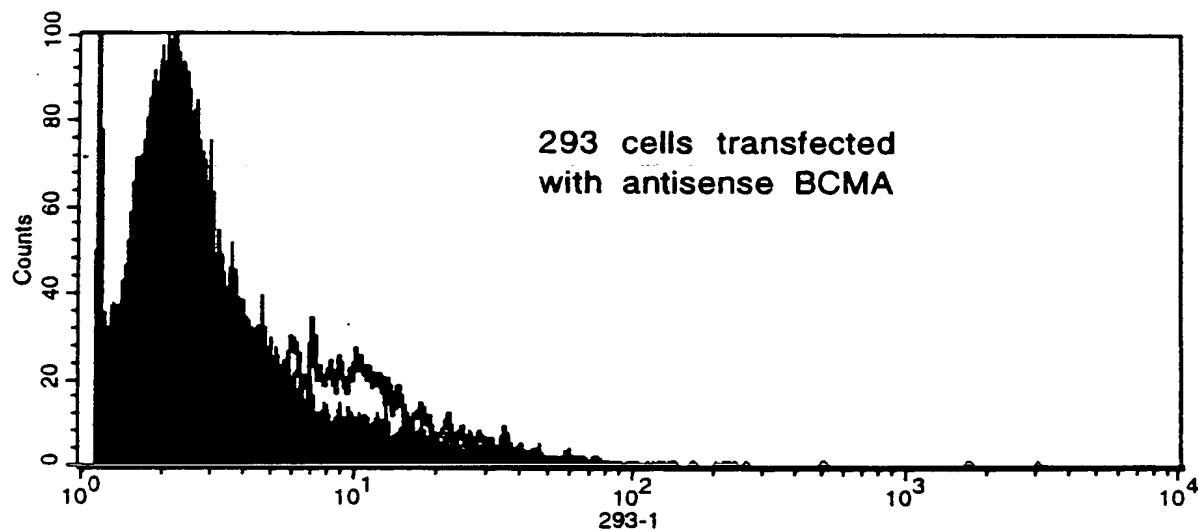
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 217. **Figure 209**



**Fig.14**



**A.**



**B.**

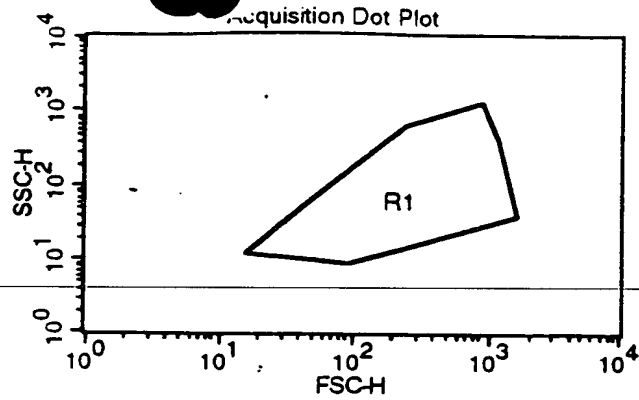
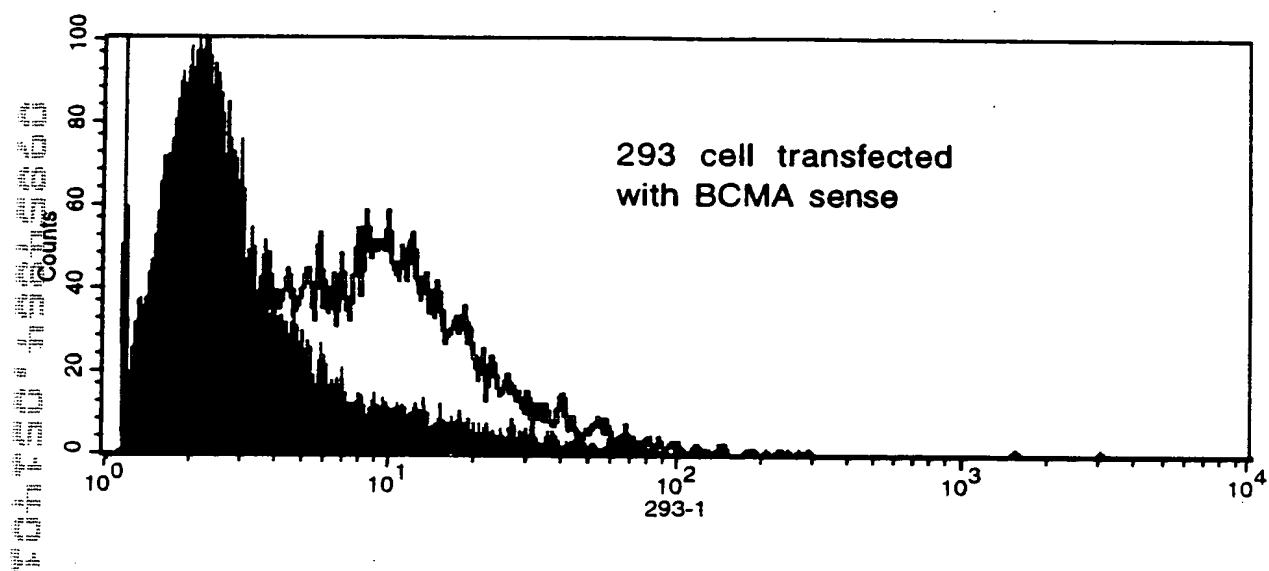


Fig.14



C.

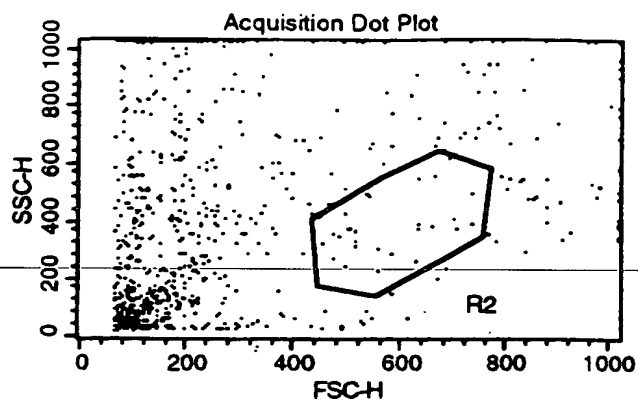
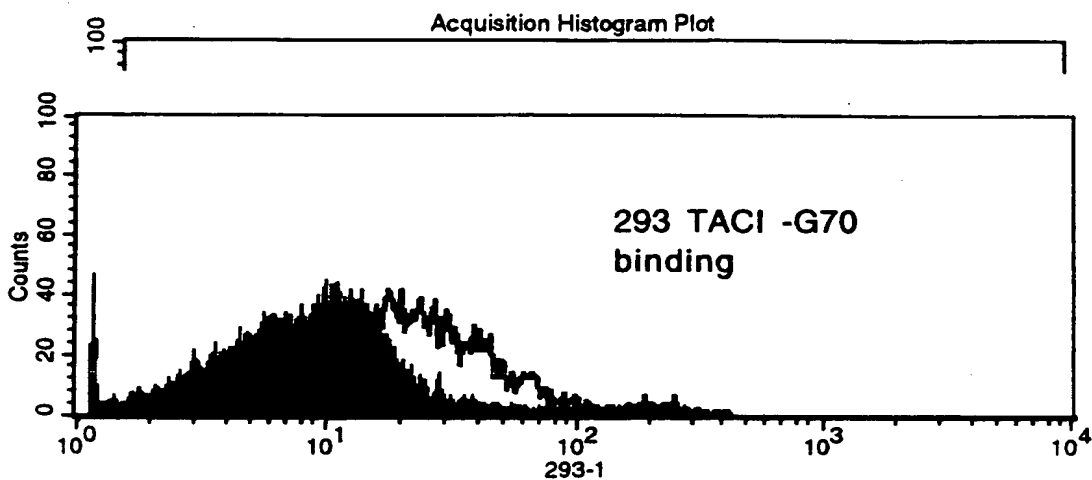
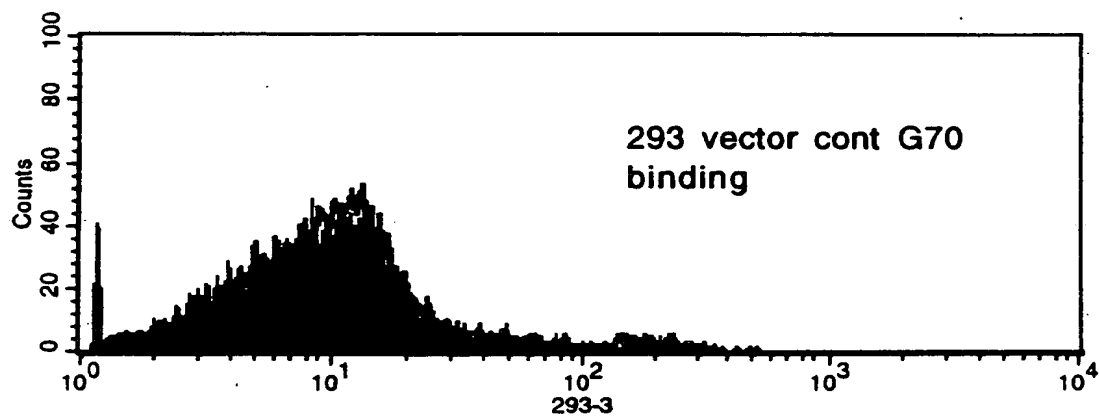


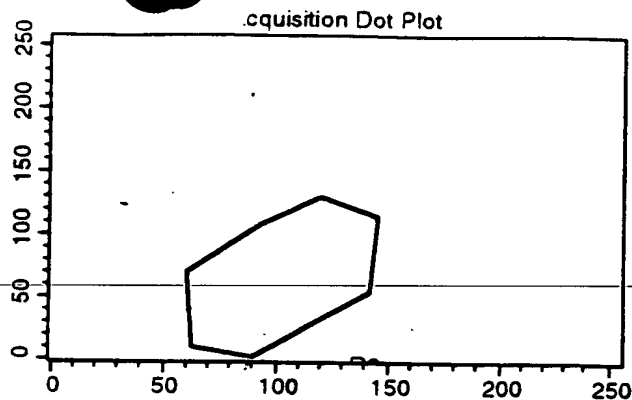
Fig. 15



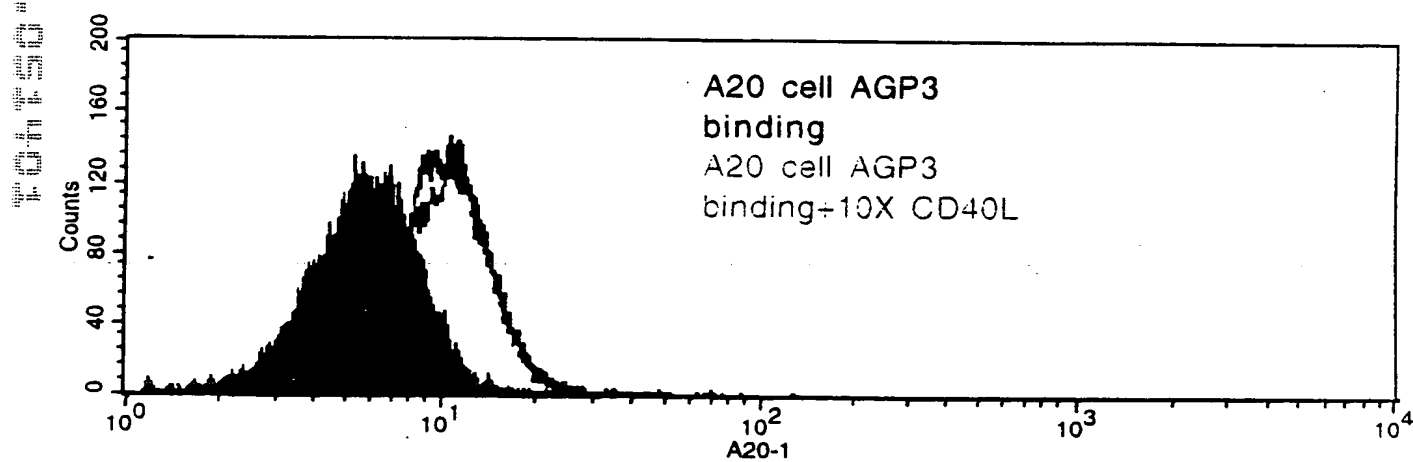
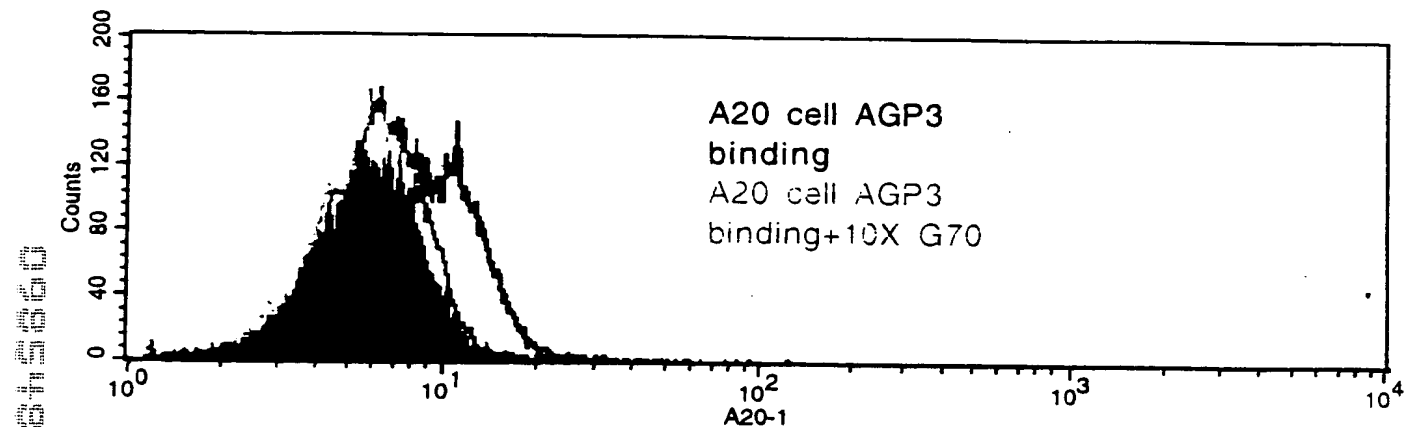
A.



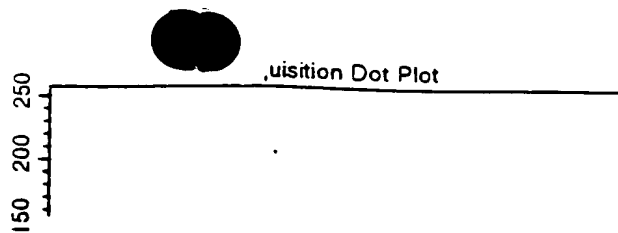
B.



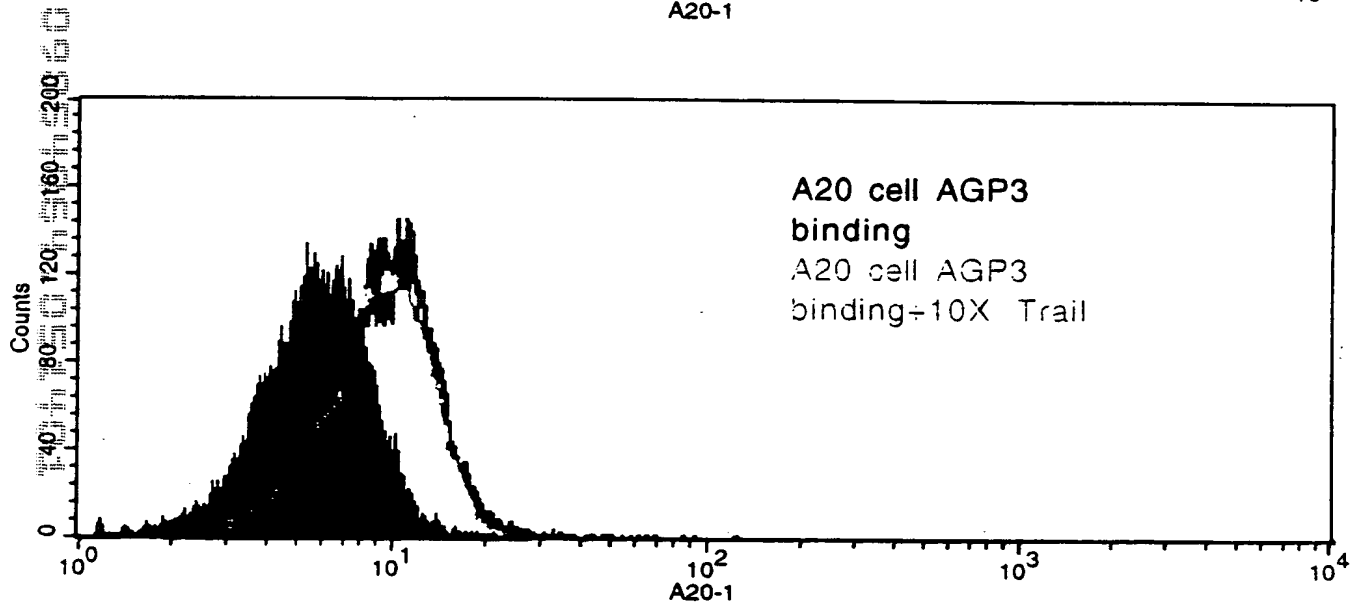
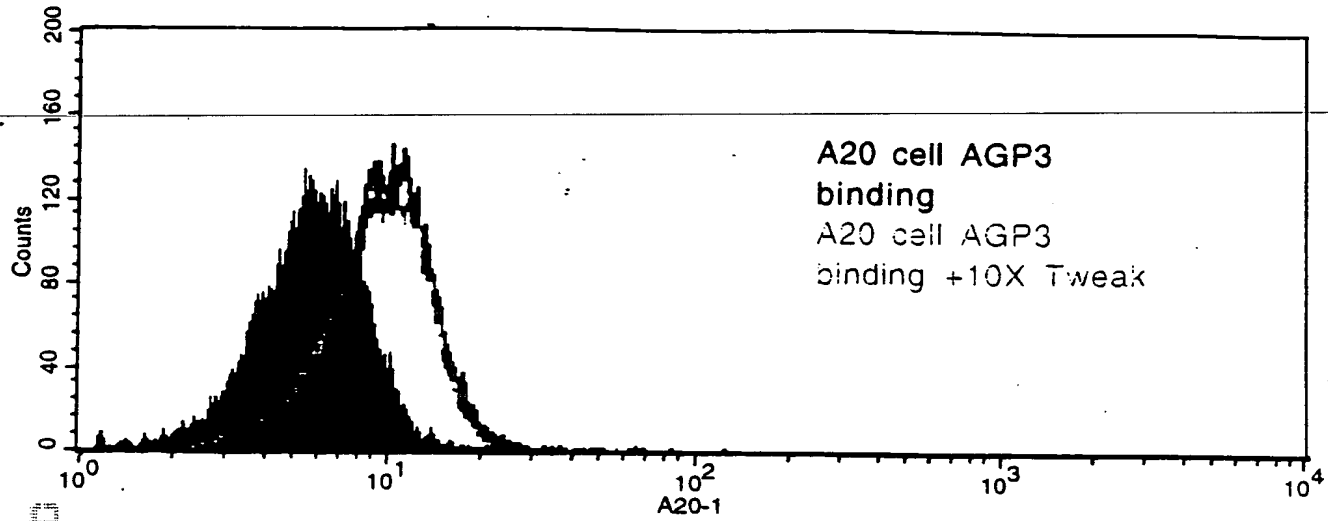
**Fig. 16**



Experiment 4-3-2000



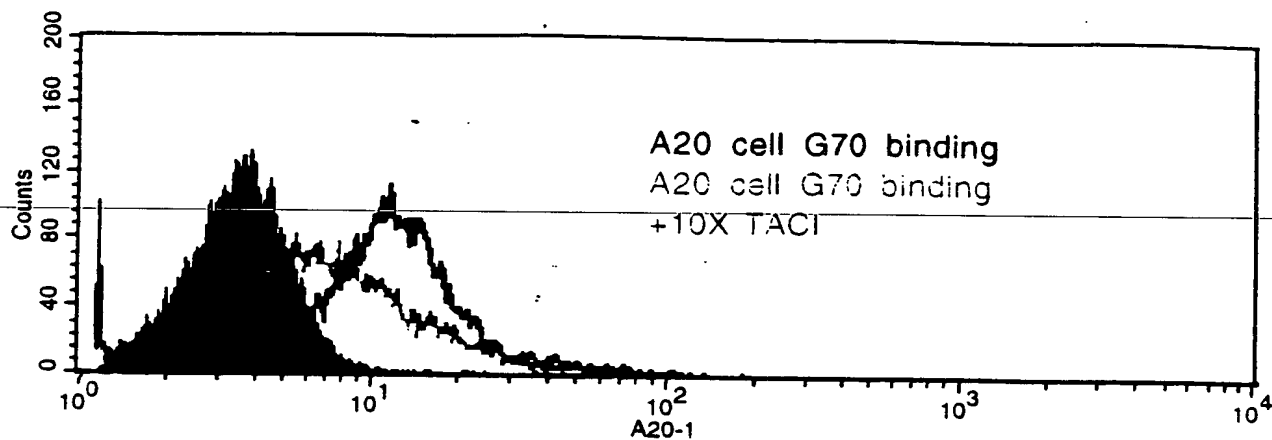
**Fig. 16**



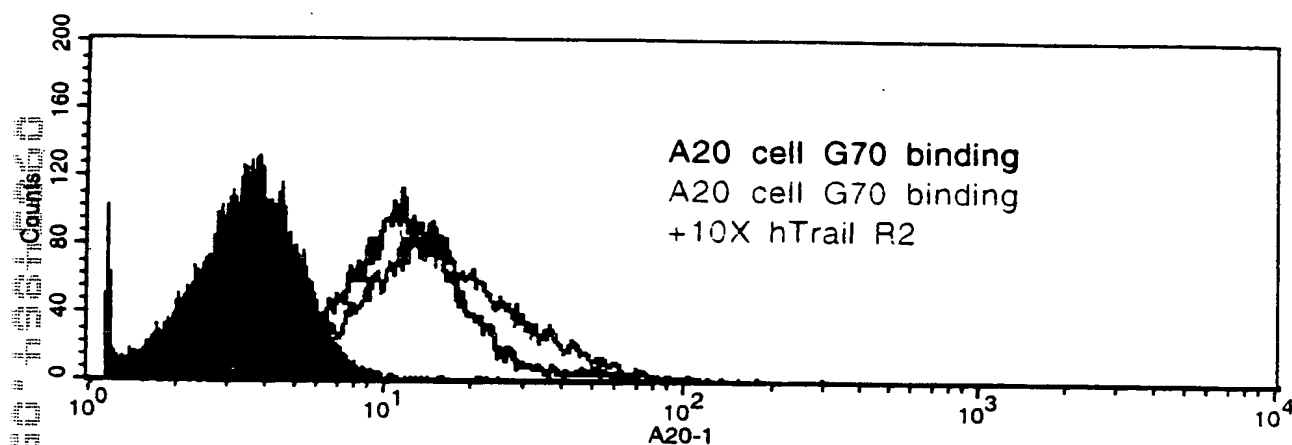
Experiment 4-3-2000

**Fig.17**

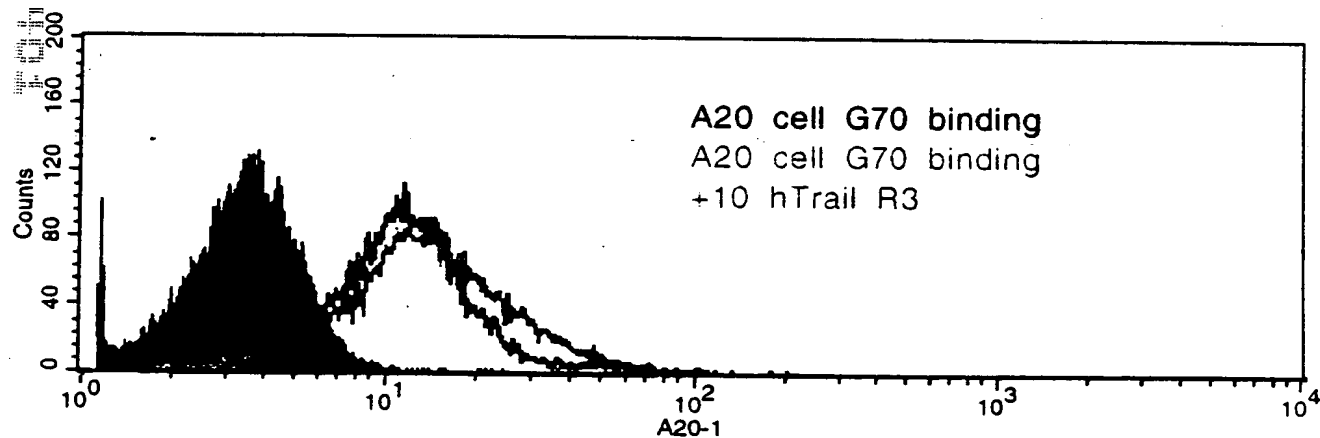
**A.**



**B.**

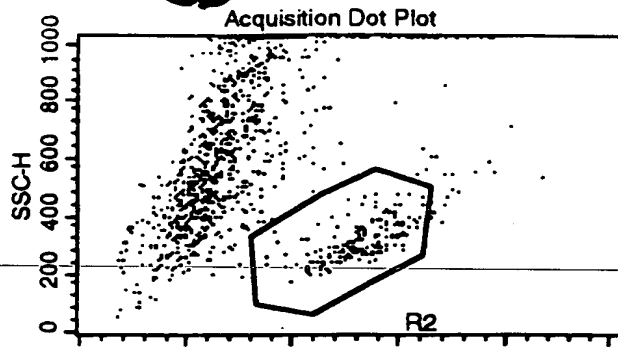


**C.**

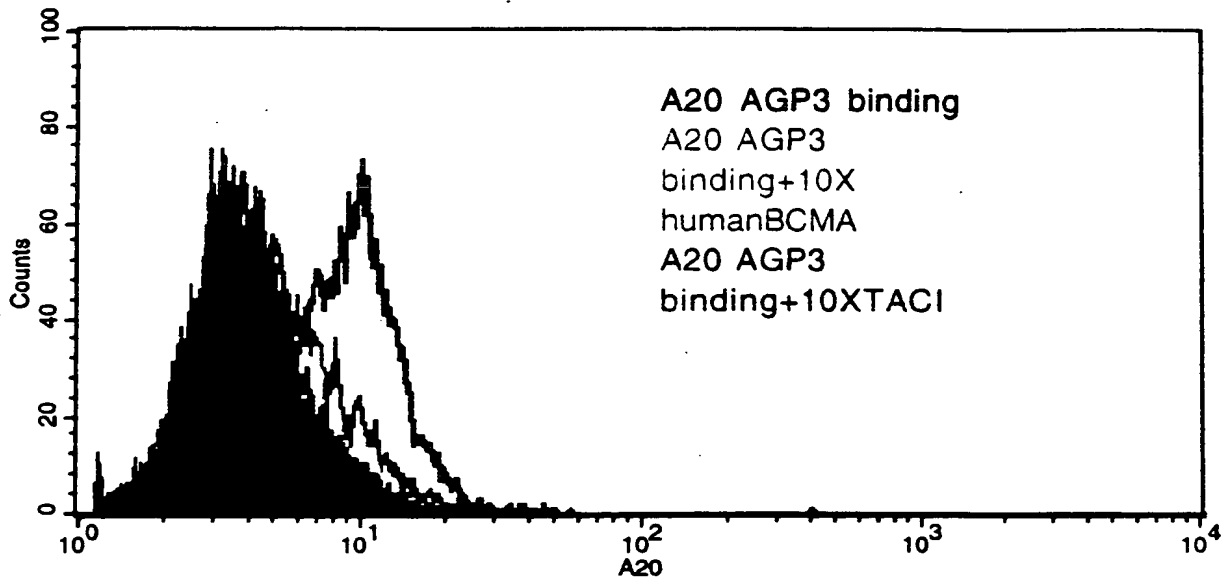


Experiment  
4-11-2000





**Fig.18**



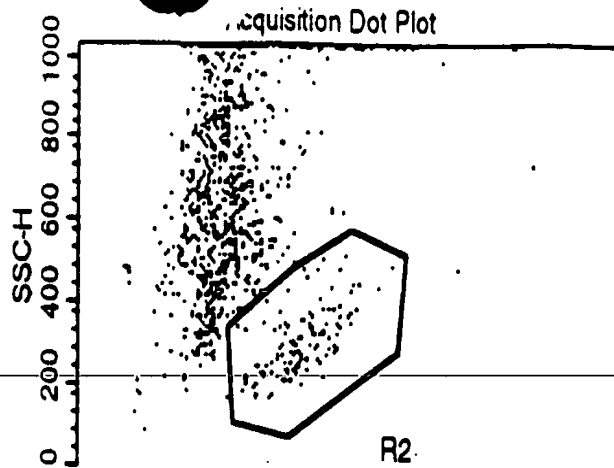


Fig.19

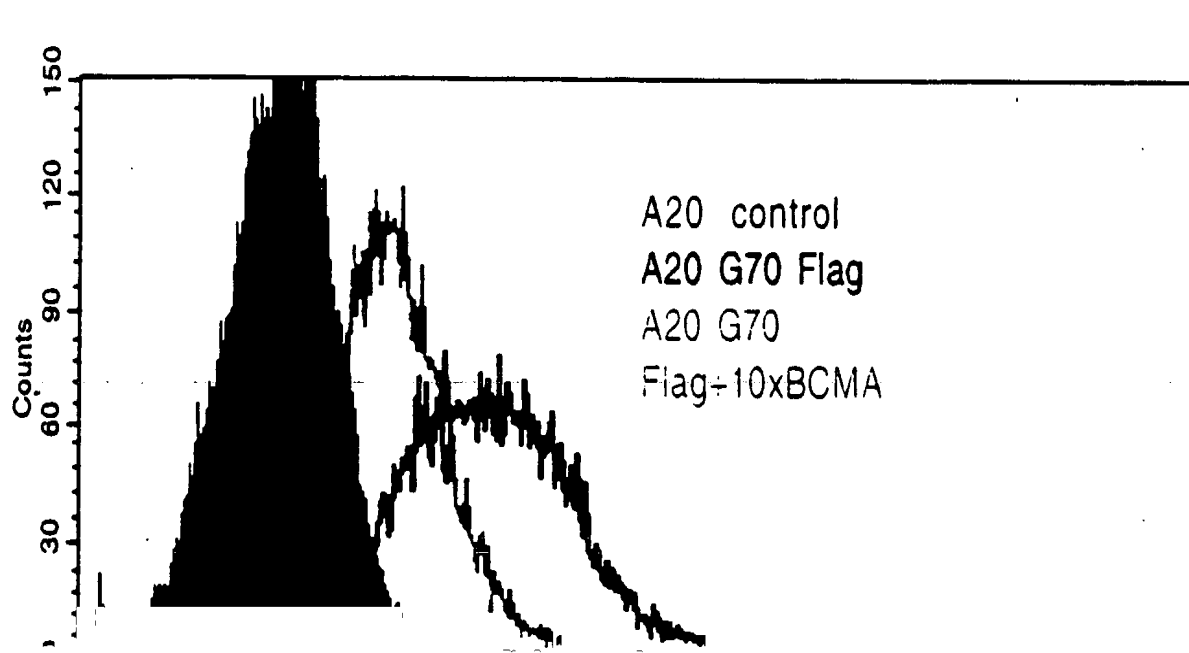
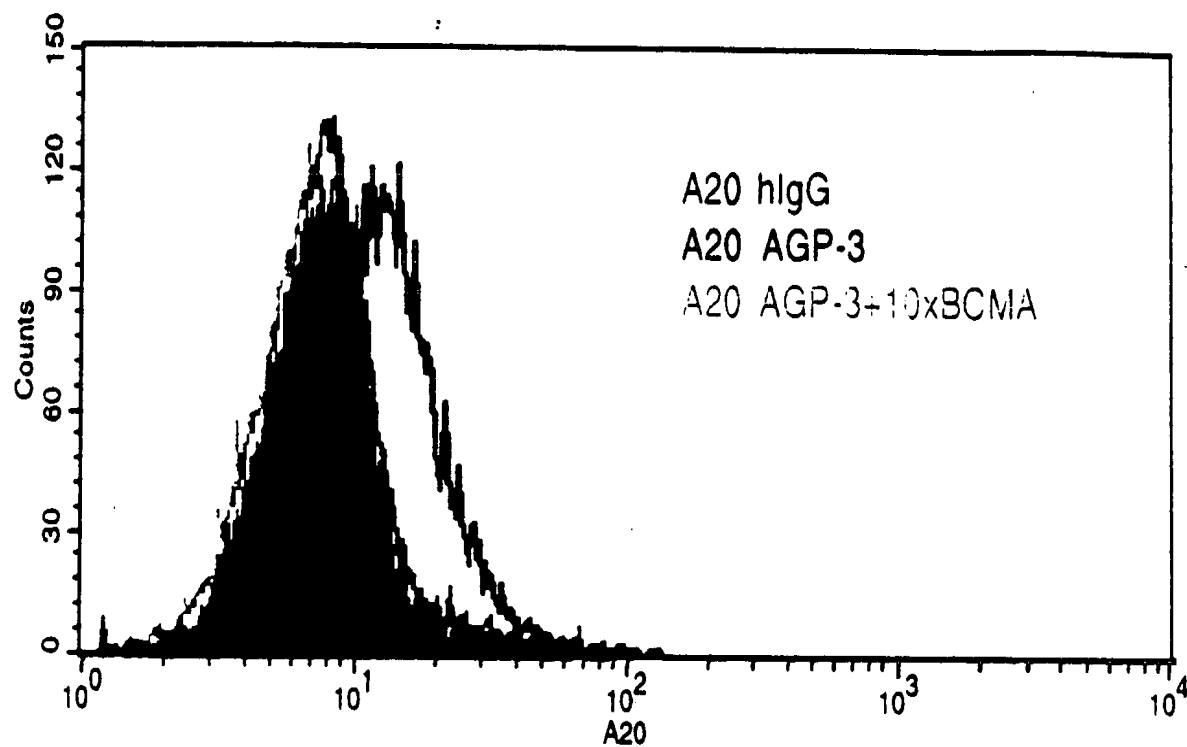
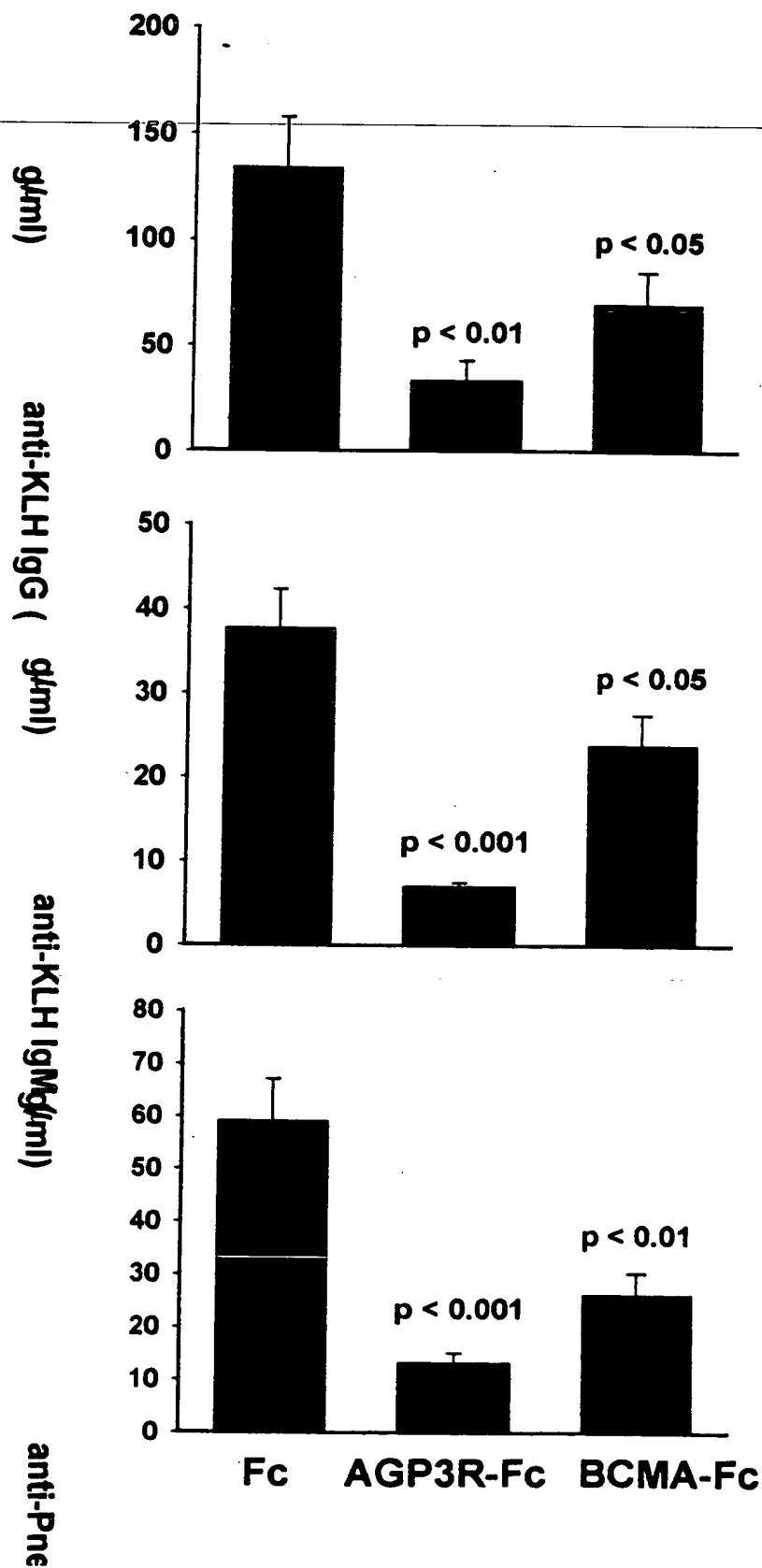


Fig.20



SCANNED, # 14

Figure 21 Fc-humanAPRIL

Fc-humanAPRIL protein sequence including the signal sequence, Fc domain, linker (XhoI site) and April:

```

1 MEWSWVFLFF LSVTTGVHSD KTHTCPPCPA PELLGGPSVF
  LPPKPKDRTL
51 MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP
  REEQYNSTYR
101 VVSVLTVLHQ DWLNGKEYKC KVSNKALPAP IEKTISKAKG
  QPREPQVYTL
151 PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNGQPENNY
  KTTPPVLDSD
201 GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA LHNHYTQKSL
  SLSPGKSRAV
251 LTQKQKKQHS VLHLVPINAT SKDDSDVTEV MWQPALRRGR
  GLQAQGYGVR
301 IQDAGVYLLY SQVLFQDVTF TMGQVVSREG QGRQETLFRG
  IRSMPSHPDR
351 AYNSCYSAGV FHLHQGDILS VIIPRarakL NLSPHGTFILG
  FVKL*

```

Figure 22

# Fc-HumanAPRIL and soluble human AGP3 stimulate proliferation of primary B cells

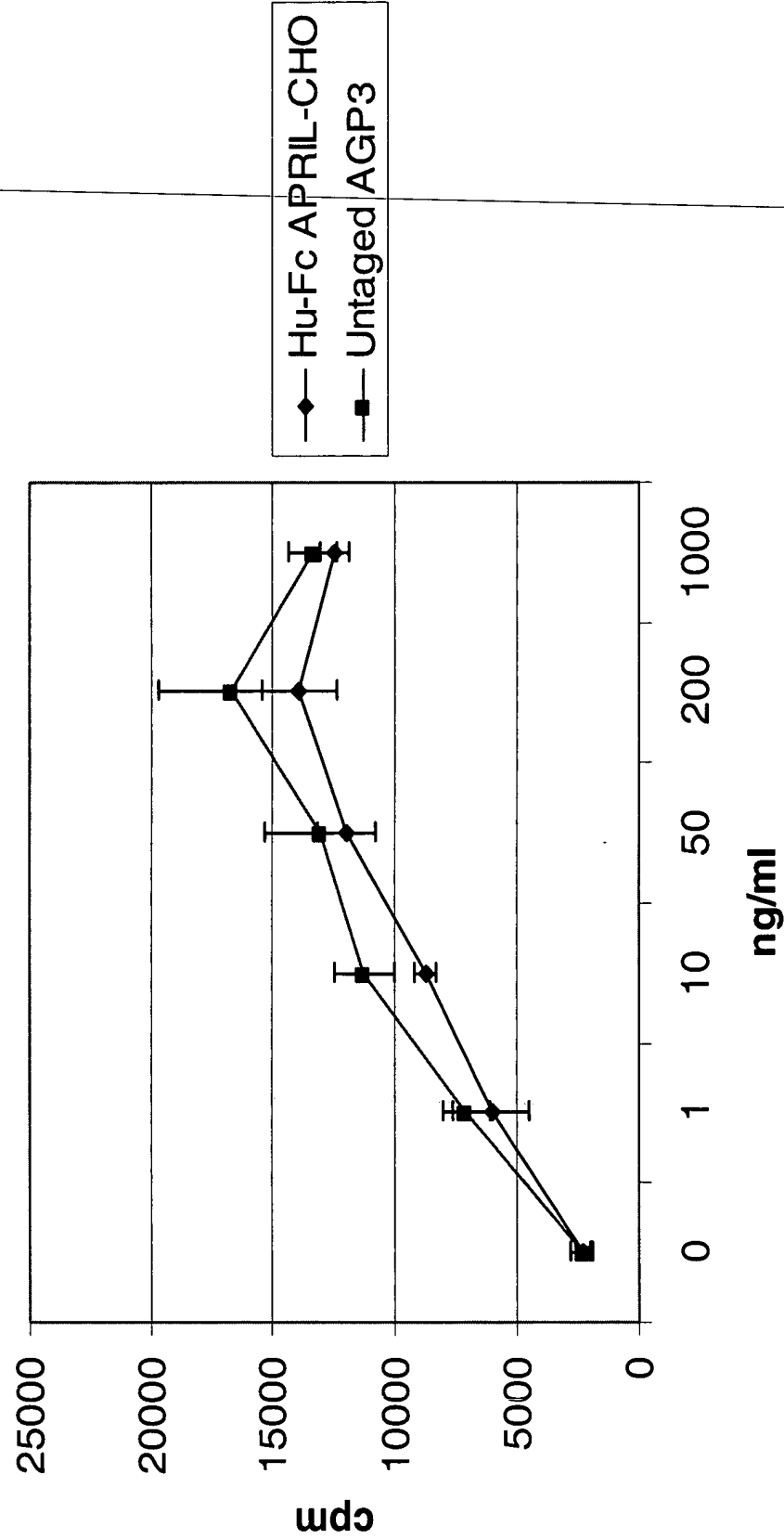
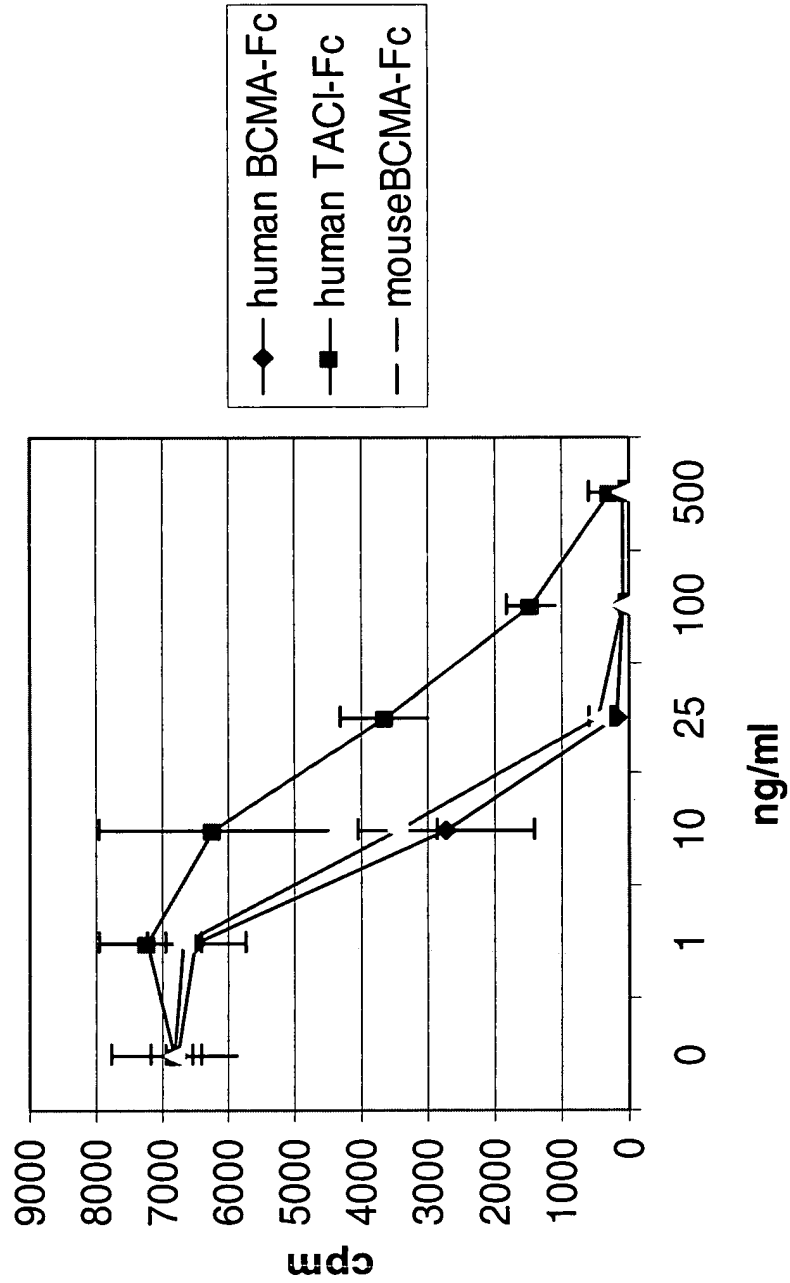


Figure 23

# **hBCMA-Fc and wt hTACI-Fc inhibits Flag-mAPRIL mediated mouse B cell proliferation**



**15 mg/kg ip on day 0, 3, and 6**

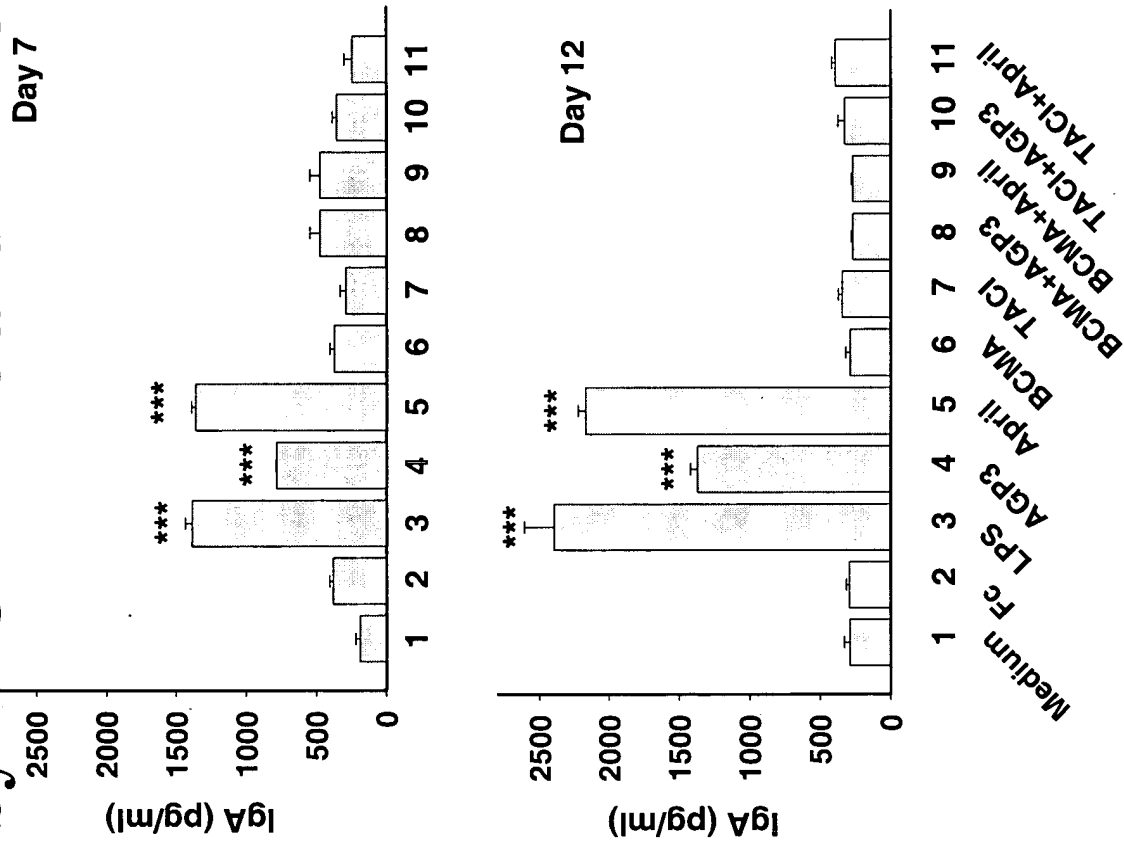
<b>BLOOD</b>	<b>WBC</b>	<b>#Lym</b>	<b>CD3+</b>	<b>CD3-B220+</b>	
	10e6/ml	10e6/ml	#	#	
<b>BCMA-Fc</b>	<b>5.30</b>	<b>3.81</b>	<b>2.3</b>	<b>1.3</b>	
SD	0.39	0.43	0.32	0.27	
t test	0.03318	0.01570	0.24737	0.00506	
<b>Fc</b>	<b>8.02</b>	<b>6.43</b>	<b>2.7</b>	<b>3.2</b>	
SD	1.27	1.52	0.6	0.6	
<b>Saline</b>	<b>6.90</b>	<b>5.55</b>	<b>2.1</b>	<b>2.9</b>	
SD	2.04	1.79	0.5	1.2	



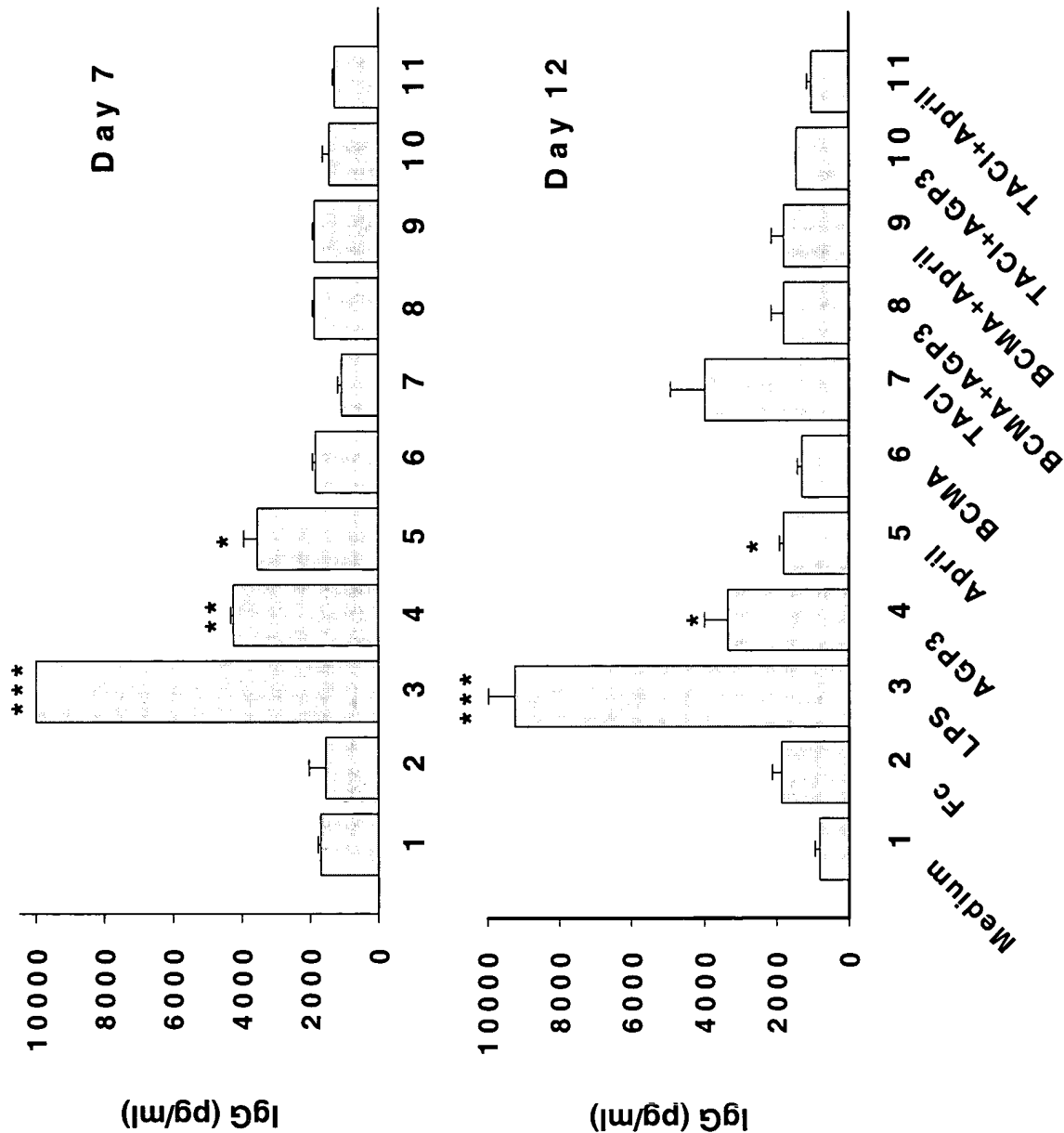


Figure 26

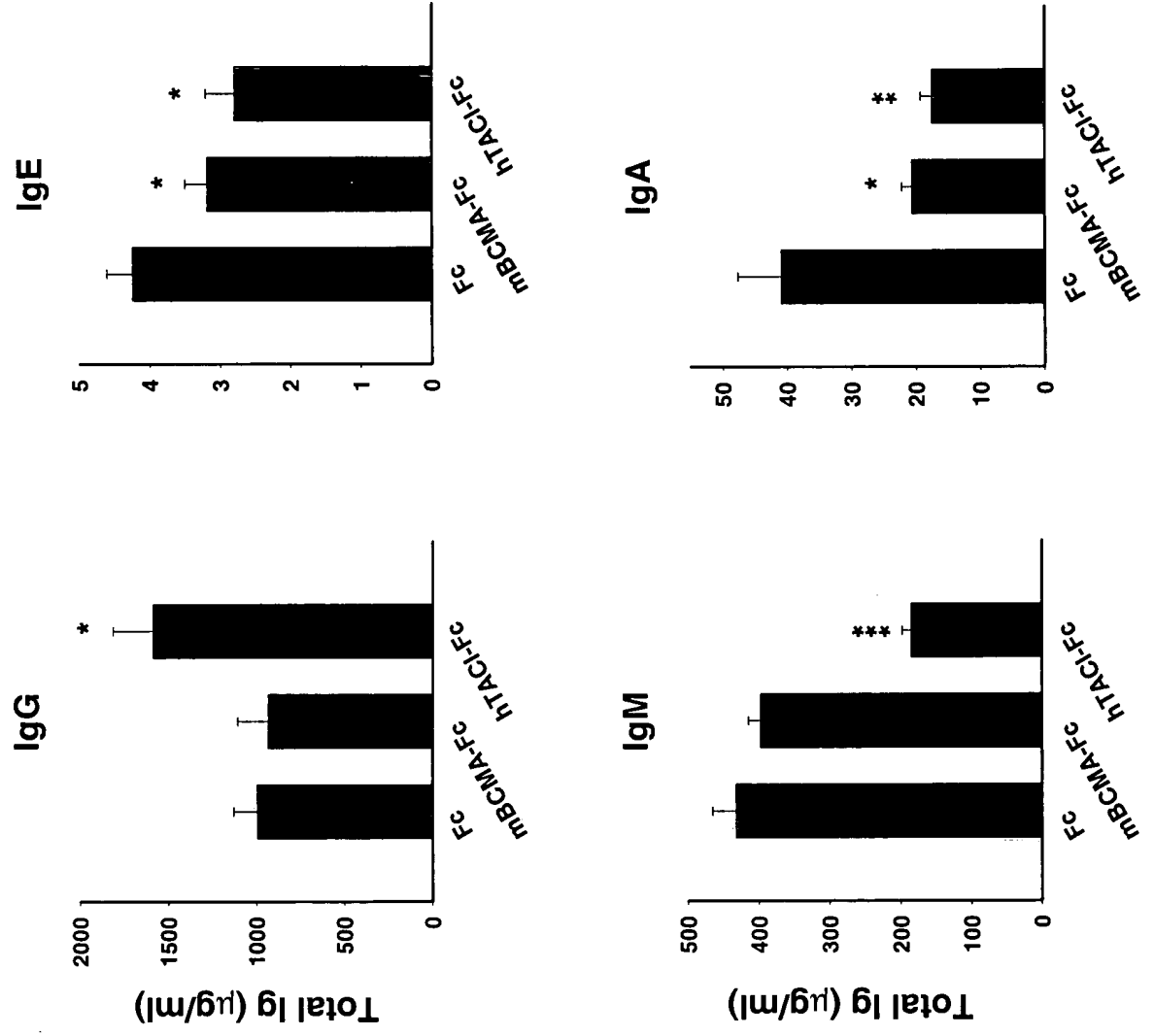
# **Flag-mAPRIL and hAGP3 mediated IgA production inhibited by hBCMA-Fc and hTACI-Fc *in vitro***



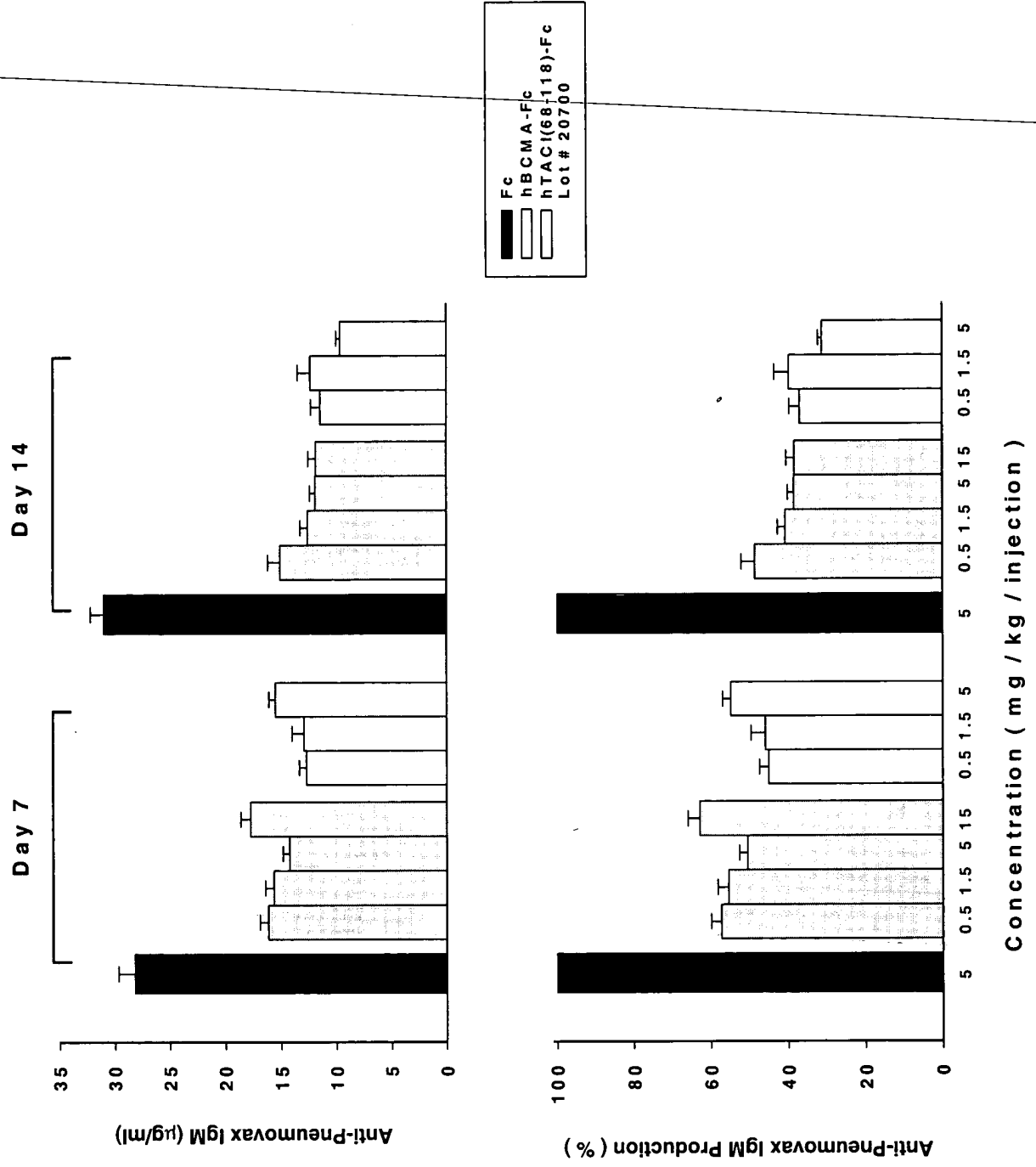
# Flag-mAPRIL and hAGP3 Mediated IgG Production Inhibited by BCMA-Fc and TACI-Fc *in Vitro*



**Figure 28: Significantly reduces total IgE and IgA in normal mice treated with mBCMA-Fc and trun hTACI-Fc 5 mg/kg ip day 0, 3, and 6**



**Figure 29: BCMA-Fc and truncated TACI-Fc at daily doses of 0.5 mg/kg inhibits humoral immunity *in vivo***



**Figure 30: Anti-mAPRIL c-19 MAb  
inhibition of APRIL mediated B cell  
proliferation**

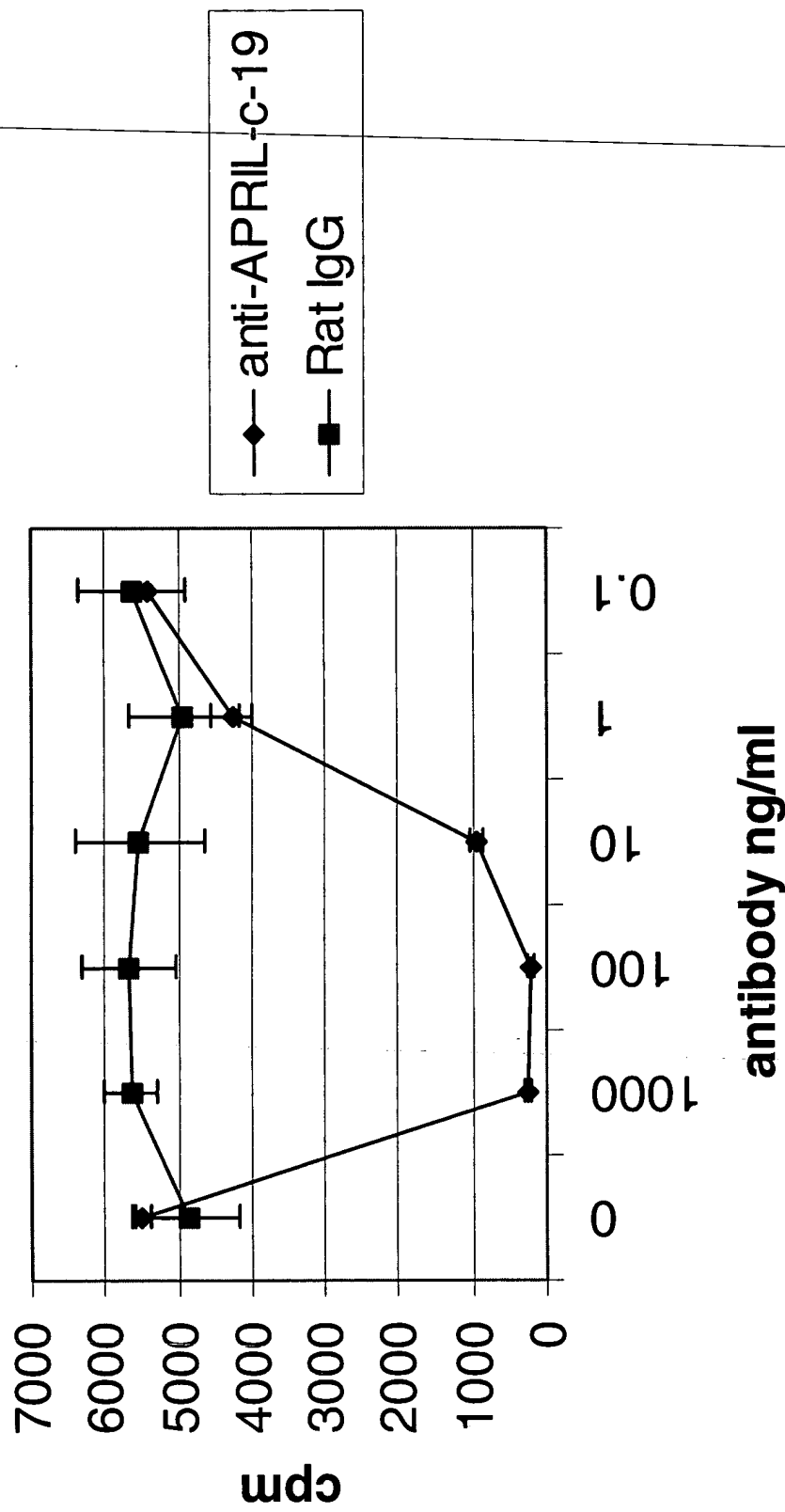
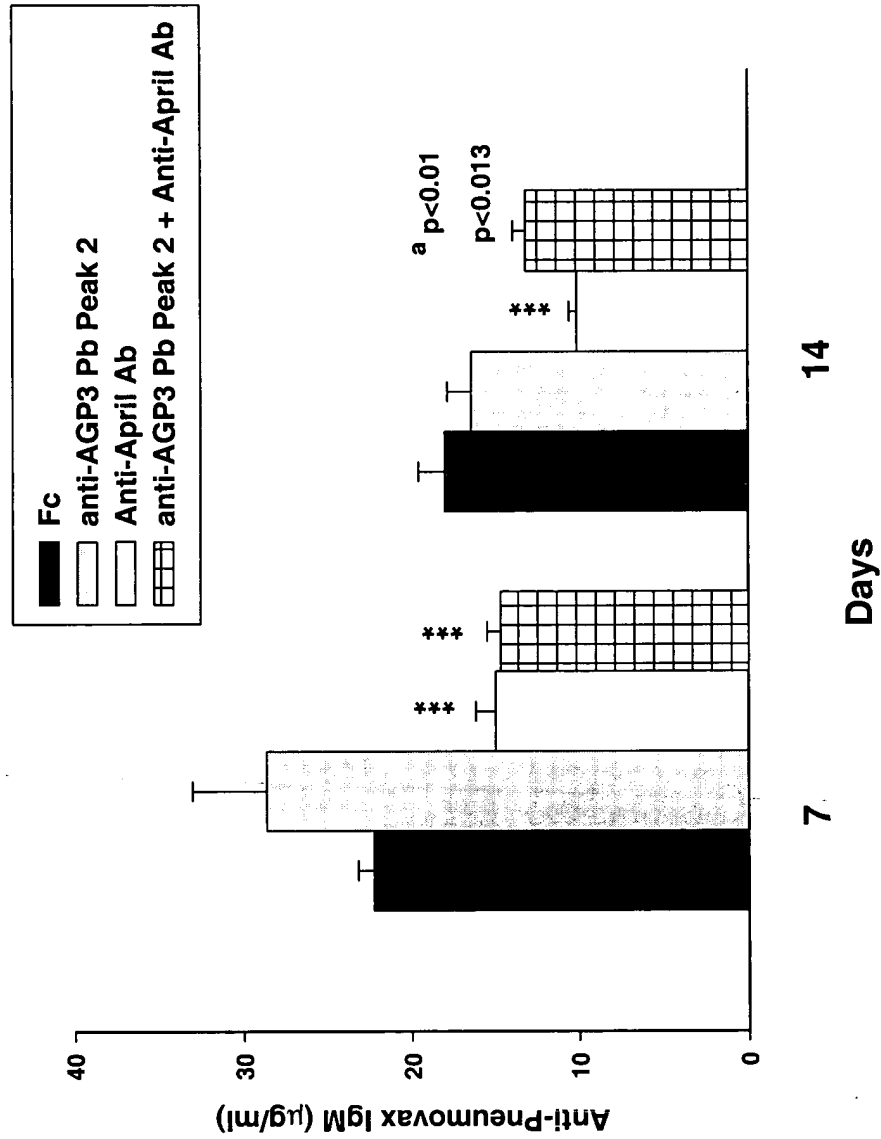


Figure 31

Neutralizing anti-mAPRIL Mab Reduces anti-Pneumovacs IgM *In Vivo*  
5 mg/kg ip on day 0, 3, and 6

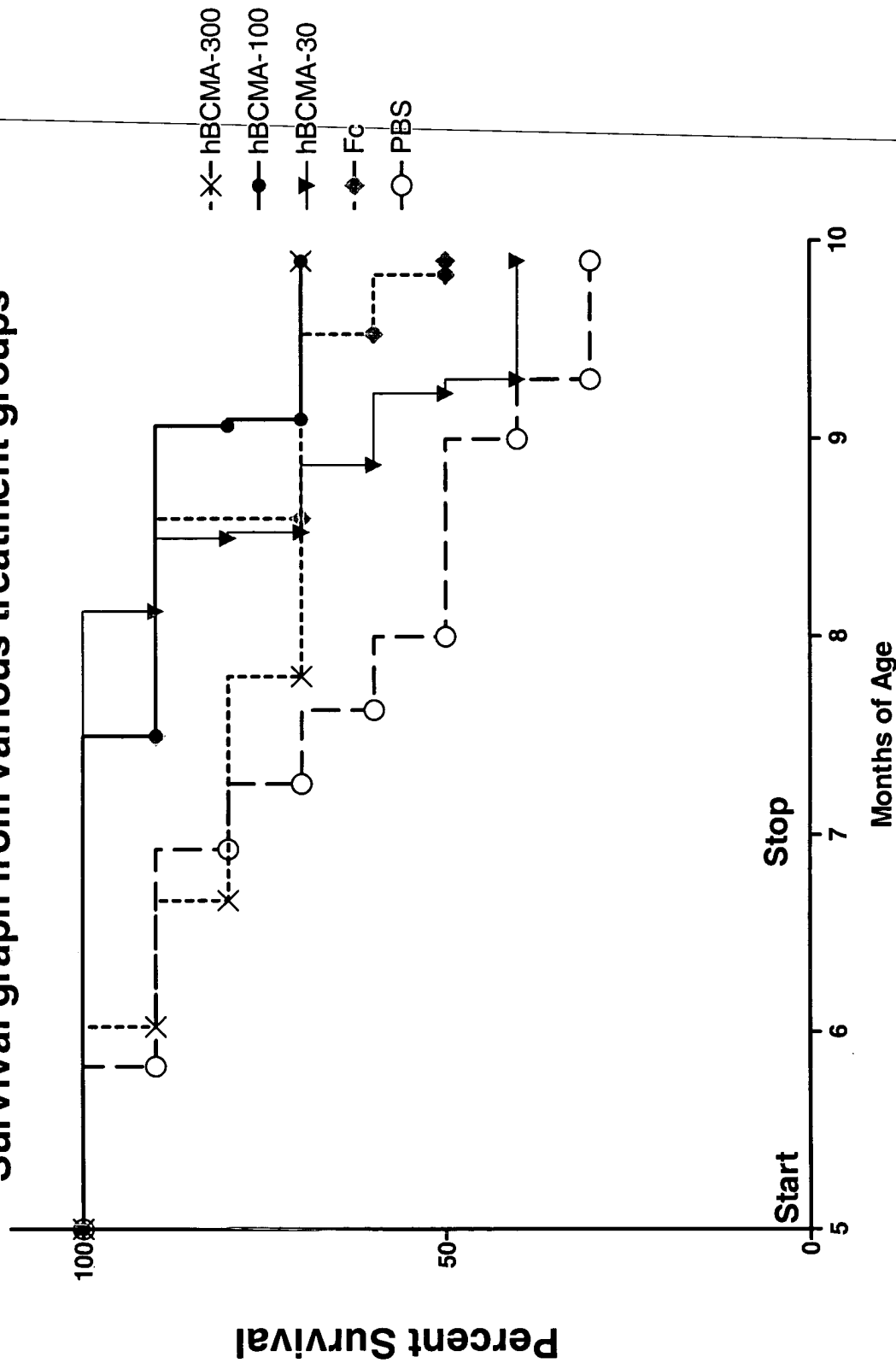


<sup>a</sup> difference between Anti-April Ab and anti-AGP3 Pb Peak 2+ Anti-April Ab Groups

12.15.00 lupus xp.

**Figure 32: Effect of hBCMA-Fc in NCB/NCWF1 mice**

**Survival graph from various treatment groups**

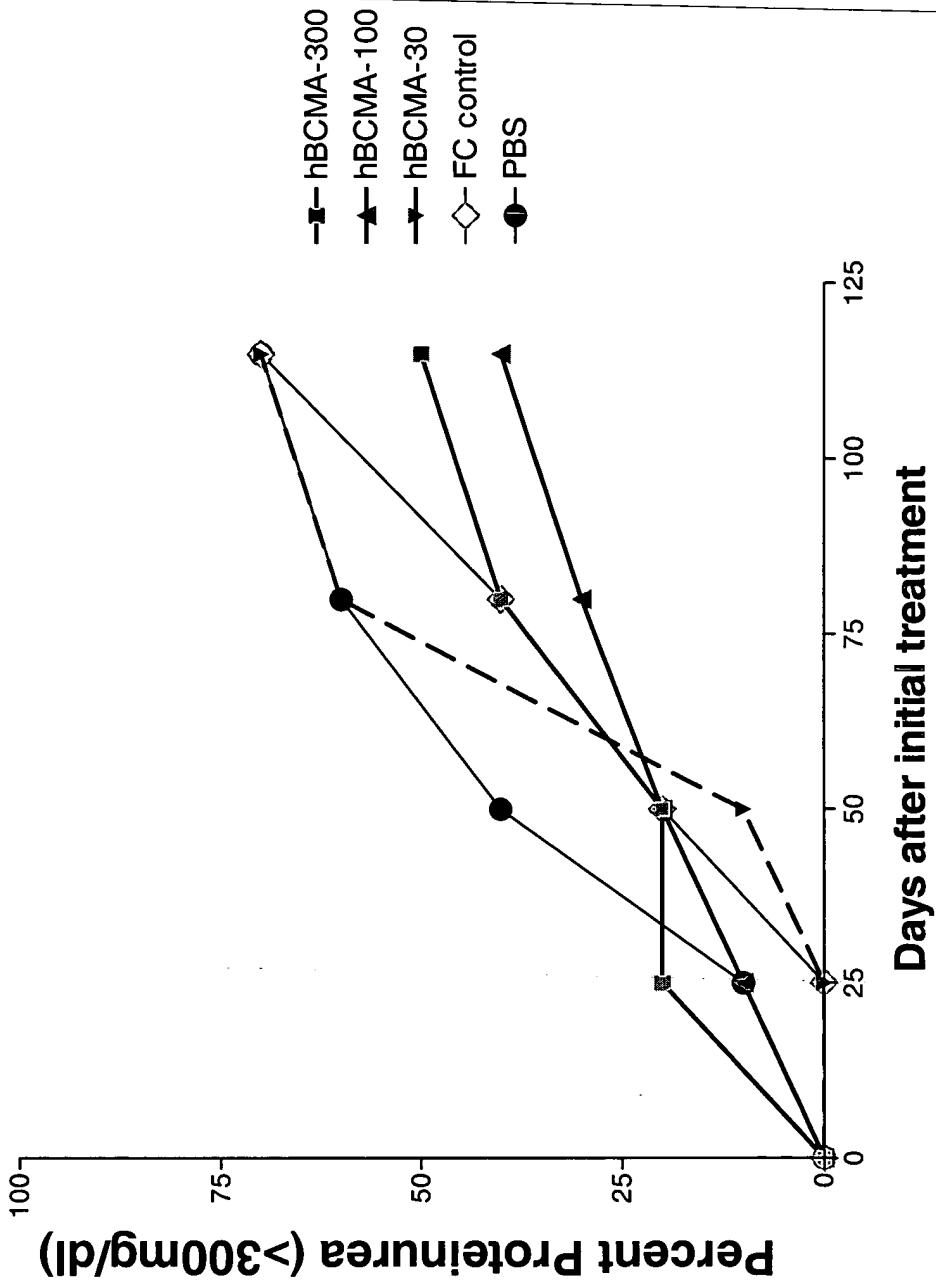


N=10 Mice were treated for 8 weeks 3x/week with the indicated proteins. KIN2 group had 12 mice. The 100 in the legend stands for 100 µg of protein or 4mg/kg i.p.

12.15.00 lupus xp

**Figure 33: Effect of hBCMA-Fc in NCB/NCWF1 mice**

Percentage of mice with proteinurea (>300mg/dl)  
from various treatment groups



N=10 Five month old BWF1 mice were treated with protein for 8 weeks i.p.  
The hBCMA-300 stands for hBCMA-fc 300µg/mouse (12mg/kg)

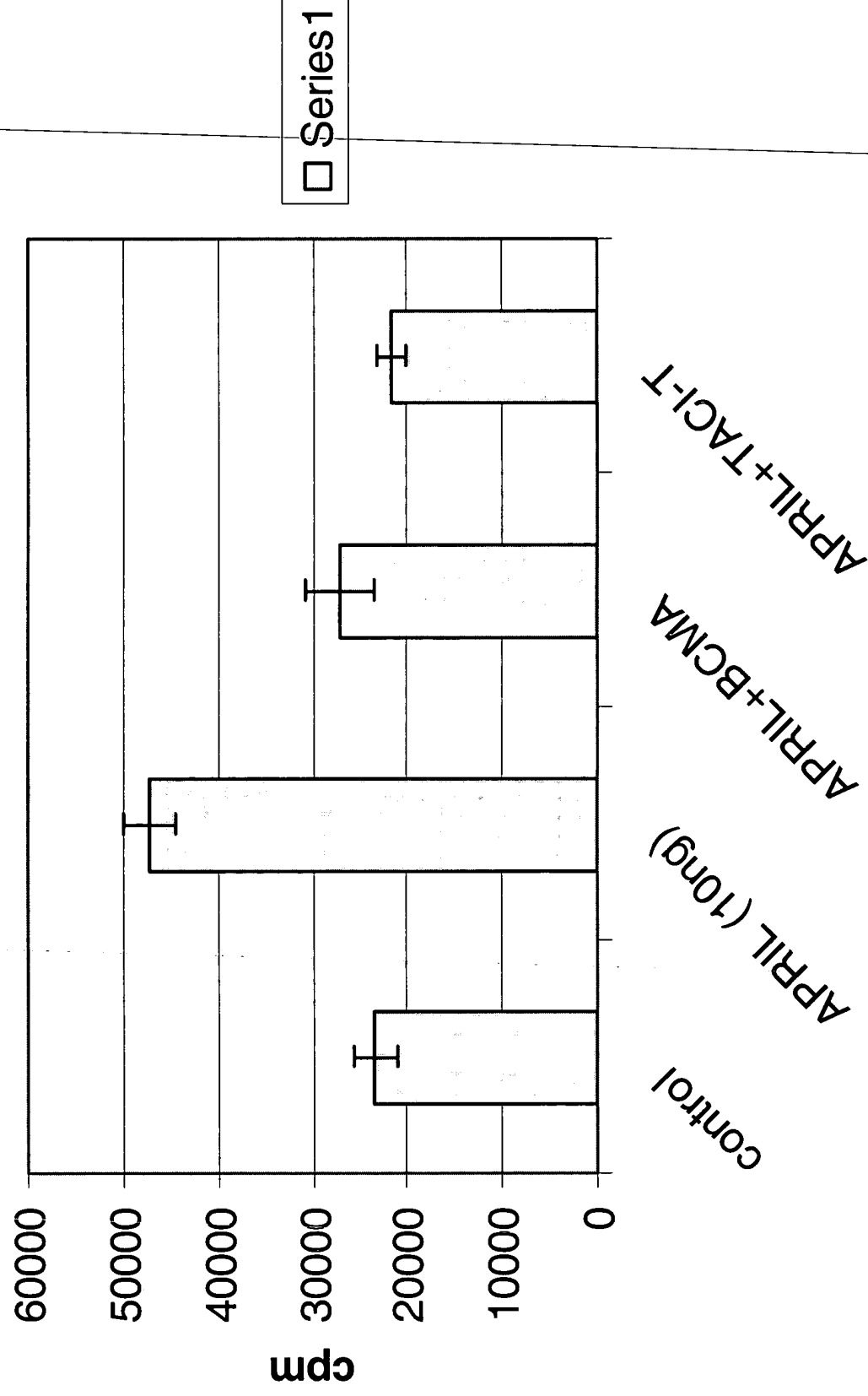




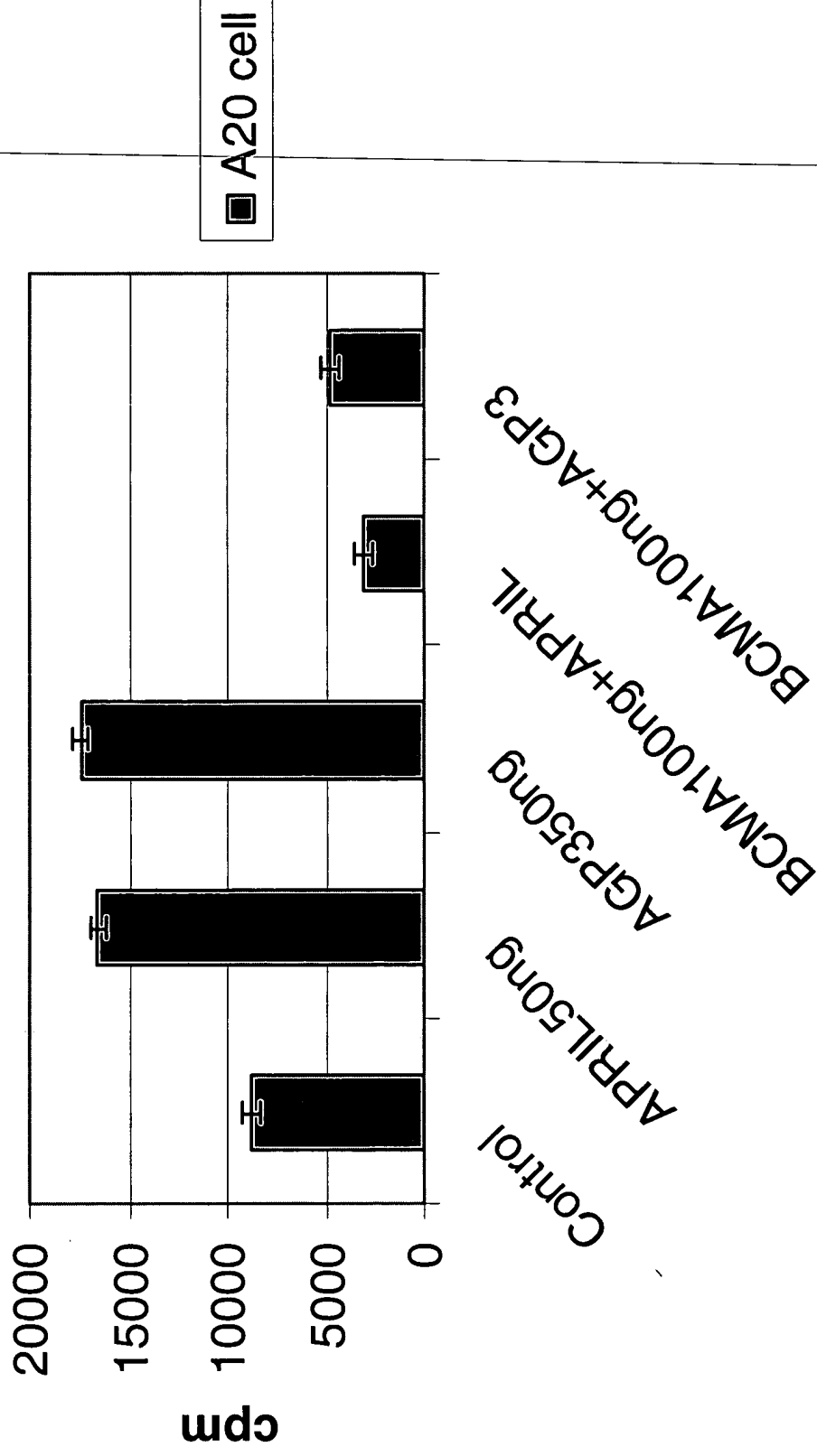




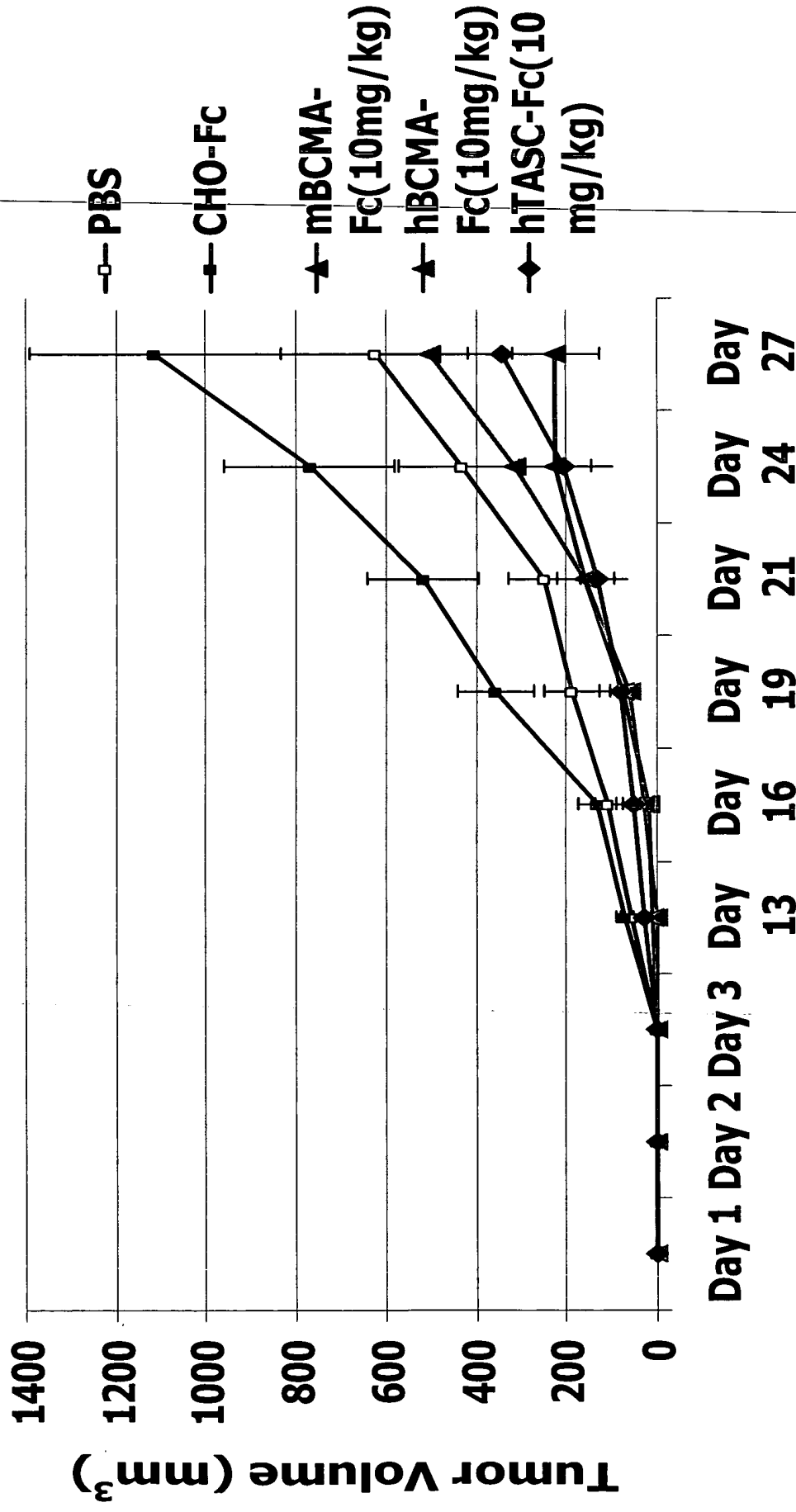
**Figure 37: Effect of APRIL, BCMA-Fc and TACI-Fc truncated on U266BI cell proliferation**



**Figure 38: APRIL and AGP3 stimulates and BCMA-Fc inhibits B lymphoma cell proliferation**



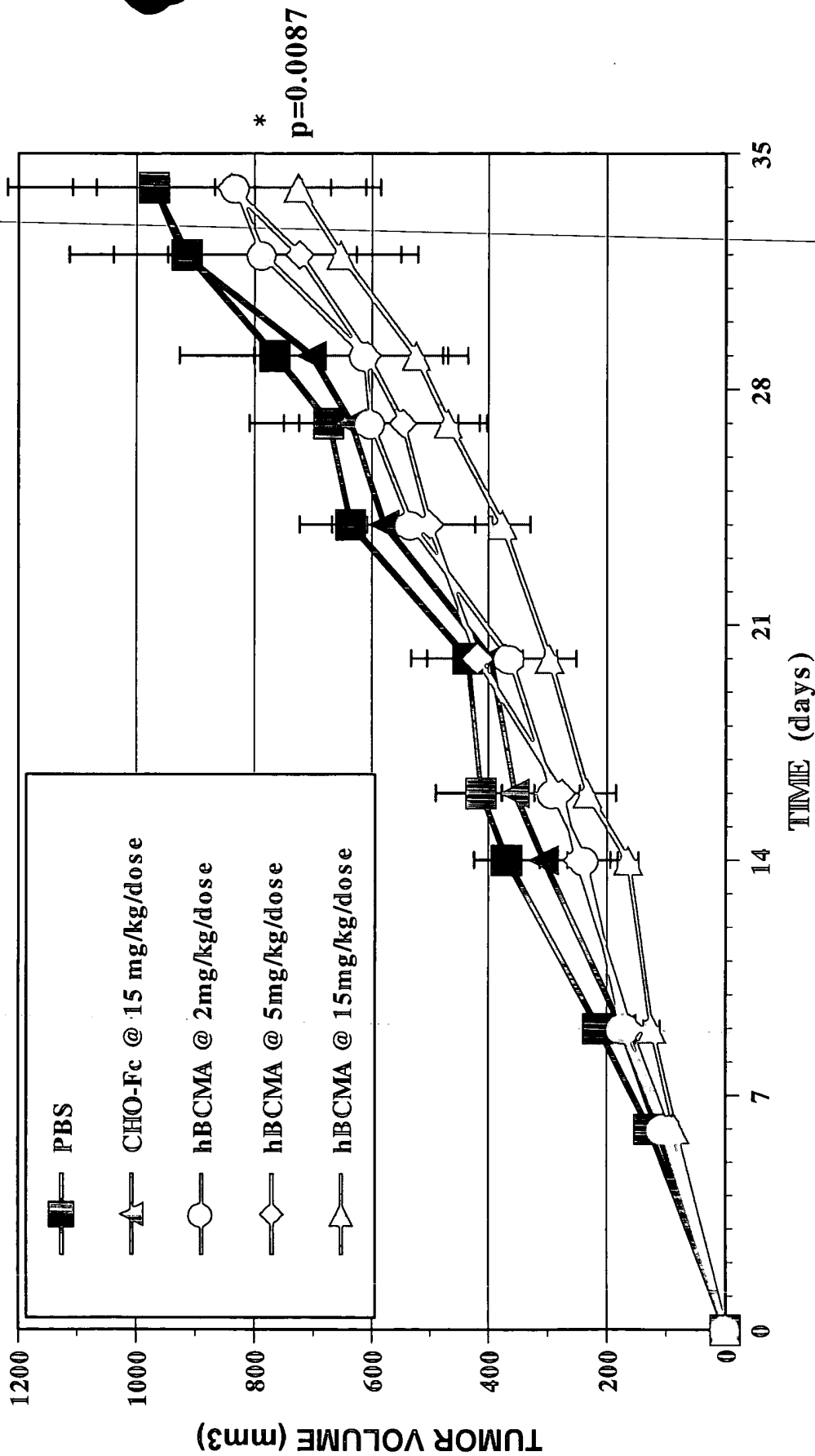
**Figure 39: Effects of BCMA & hTACI on the Growth of A20 in Balb/c Mice**



**Days After Tumor Implantation**

# EFFECT OF HUMAN BCMA-Fc AGAINST HT-29 SC TUMOR GROWTH

Rx: IP, Q2D, day 0

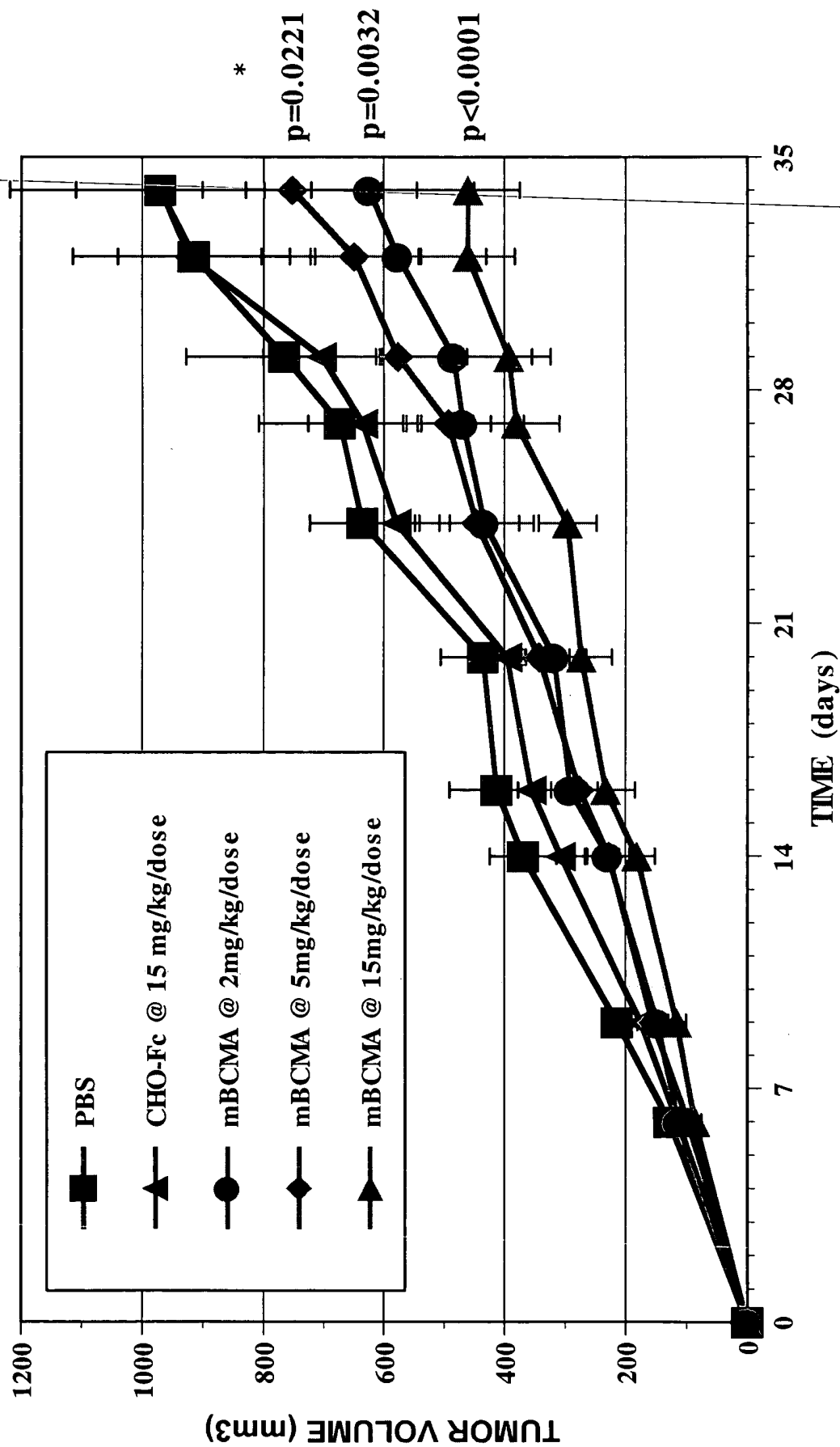


\* Linear growth ANOVA with Dunnett's correction for multiple testing (n=10/group)

Figure 41

# EFFECT OF MURINE BCMA-Fc AGAINST HT-29 SC TUMOR GROWTH

Rx: IP, Q2D, day 0



\* Linear growth ANOVA with Dunnett's correction for multiple testing (n=10/group)